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# SOLRAD-11 On-Line System (SOLOLS) Applications Software ... Interim System

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Space Environment Branch Space Systems Division

March 1977

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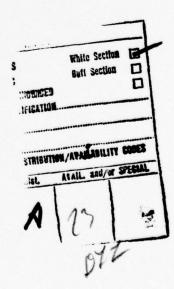
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## SOLRAD-11 ON-LINE SYSTEM (SOLOLS) APPLICATIONS SOFTWARE . . . INTERIM SYSTEM

#### I. INTRODUCTION

The NRL applications software package in the "interim" system is a multi-tasking code embodying a single task overlay and is resident on a Data General NOVA 800 minicomputer. The operating tasks are a data display task, QLOOK; a data base write task, UPDTDB; a communications driver task, NLINK2; and a message processing task, PROCT. All tasks other than QLOOK are continuously core resident during operation. QLOOK, because of its size, must be overlayed with only a small root program continuously core resident.

QLOOK is the main system task in the sense that it prepares the system to receive the other tasks and then activates them. Once a task is activated, access to the CPU is determined by the RDOS (real-time disk operating system) TASK SCHEDULER according to priority. Since the data display task is of lesser urgency than the real-time data base update, QLOOK lowers its priority after activating the other tasks. The RDOS protocol for task ACTIVATE, ABORT, READY and SUSPEND is designed to make most efficient use of the CPU. Providing adequate access to the CPU for each task is largely a design factor for the code designer.

#### II. DATA DISPLAY TASK (QLOOK)

The data display task is described in the flow diagram shown in figure 1. After activation of the other tasks, the root program embarks upon a loop which initiates software overlays as requested by the operator at the control console. In the event that there are no TTY messages then the task waits for I/O at the "read TTY" point in the code. In a multitasking environment, a task awaiting I/O is automatically suspended and the CPU is assigned to other operating tasks. Operator TTY intervention "READIES" the QLOOK task and upon assignment of the CPU, the data output task is executed.

More detailed flow diagrams of the overlayed applications software are given in figures 2 to 5. These flow diagrams are intended to give an accurate sense of the program flow without being accurate in their small details. The major programs and subroutines involved in each of these functions are listed

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along-side the flow diagrams. Additional details about program operation are available in the code listings which are copiously commented.

The four display programs are as follows: Status Display, Listings Display, Plotter Display and Data Base Describe.

The status display code accepts an experiment number and an observation period and provides a formatted output of experiment status for every page of telemetry data during the prescribed interval. The output device can be either a CRT display console or a line printer.

Similarly the Listings display code provides a formatted output of almost all of the data collected during the prescribed interval. The data is output, for the most part, in telemetry page modules. There are exceptions, however, for those experiments, such as #9, 16, 17 and 25, in which a complete data record spans many telemetry pages. In such cases a data output module spans a complete experiment record. The output device is again either a CRT display or the line printer.

The Plotter display in its current configuration uses the Calcomp plotter as the output device. The plot software is presently incorporated into the overlay architecture and includes all necessary Calcomp plot subroutines. The actual experiment plot routines are largely undone with the exception of that for experiments #4, 5, 6, 12 and 13. This routine was written to demonstrate feasibility of the overlay structure for the plot routine and also because this group of experiments was of most immediate interest to users. The procedure adopted in the plot routine for experiment #4, 5, 6, 12 and 13 was to plot data in page size increments. A user request for a plot consisting of one hour of data would then involve 30 disk seeks (each page of data equals 2 minutes) and 30 calls to the plot subroutine.

The data describe program is designed to permit examination of the data base to its minutest detail. Data is output in page size increments upon operator request. The data is presented as octal-magnitude and sign for each word or in the actual binary representation. In addition to the data base, the describe program will print the data base directory in an I5 format upon operator request.

The applications software overlay is organized into 3 nodes. A node is a segment of the overlay disk file which is assigned a given area of core. Overlays within the node are shuttled into and out of the assigned core space as directed by the program. Appendix A shows a relocatable loader listing detailing the organization of the overlay file. Node 0 of this file contains

mainly output processing, formatting and print routines. Node 1 contains mainly data retrieval routines and node 2 contains primarily the display executive routines. The loader listing also provides information on subroutine and program sizes as well as overlay savefile core allocation.

The data retrieval routines deposit data relevant to an output request into three arrays the LAR, NAR and MAR arrays. The LAR array contains general information which is useful for header formulation. The NAR array contains experiment status information and the MAR array contains data. The NAR and MAR arrays are specific to a particular experiment. All three arrays are refilled each time a new telemetry page is processed. In cases where several experiments are linked in a single output format, several data seeks are required, each with a different experiment number specification.

Data retrieval is accomplished according to time and experiment number. A minute tag, appropriate to the desired time, is furnished IDBDAT which searches the data base directory for the desired time tag. A tolerance of plus or minus one minute of the time specified is allowed. Each time seek is conducted independently of and in an identical manner to every other seek. If a prescribed time tag is not found in the data base directory, a message to that effect is generated and displayed on the control console. The LAR array is generated in IDBDAT after locating and retrieving the desired page of data.

Each experiment has a specific retrieval routine called RETXX where the X's refer to the experiment number (e.g., RET19 for experiment #19). The data for the NAR array is presented in a programmed format for use by the status display routines. Generally speaking, specific locations in the NAR array are reserved for the same type of information regardless of experiment. The format of the NAR array for all 25 experiments is given in Appendix B. Knowledge of this format is very useful when trying to understand the operation of the Status Display Code.

Most of the data display programs are fairly straight forward and require only a single page of telemetry data for an output module. Certain experiment listings are more complicated, however, and these require some additional description. The most efficient form of exposition is that of the flow diagram and we will make liberal use of this device.

The data for experiment #9 may be distributed over seven telemetry pages depending on the scan mode. The starting page is distinguished by a synchronizing word. In addition, data from experiment #8 is necessary to the proper interpretation of experiment #9 data. As a consequence the code is divided into

three phases. Phase one involves search for the "sync" word. Phase two involves the collection of 7 pages of data starting with the "sync" page. Phase three involves the acquisition of experiment #8 data. Figure 6 is a flow diagram for the experiment #9 LISTING code (EXP9). Figure 7 is a flow diagram for the experiment #9, STATUS Code (STE9) which is also complicated by the distribution of relevant data over seven telemetry pages.

Experiment #15 is less complicated than experiment #9 but is distinguished by the fact that format 3 is almost totally devoted to a read-out of experiment 15 data. In this format, the data is extracted as in other formats except that the program executes 10 data "seeks" in order to extract a complete data record. A flow diagram for the experiment 15 LISTING code is given in figure 8.

Experiment 16 requires eight telemetry pages for a complete data record. It provides for output of stellar, or auroral data or both. A flow diagram for the experiment 16 LISTING code is shown in figure 9.

Each page of telemetry data provides a complete record of experiment 17 data. However, experiment #17 LISTING code allows for output of up to 16 telemetry pages of data on a single output page. In addition, the code permits the selective display of data as shown in the flow diagram of figure 10.

The experiment 25 LISTING code provdes for two types of output, "State of Health" (SOH) data and Gamma data. In order to provide a short history of SOH each page of output contains data from 16 telemetry pages thereby covering 32 minutes of experiment time.

The Gamma data is available in format 2 only and consists of two pages of telemetry for a complete data record. The start of a record is always on the even telemetry page and hence the data extraction is preceded by a search for an even telemetry page number. The flow diagram for the experiment 25 LISTING code is shown in figure 11.

Finally, an exposition of the SOLOLS Applications Software would be incomplete without examples of the available displays. These are given in Appendix C. They include a complete set of STATUS and LISTING displays, a Calcomp graphics display for experiments 4, 5, 6, 12 and 13 and a Data Base Describe (one in octal and one in binary) for a page of the data base.

#### III. COMMUNICATIONS MULTIPLEXER DRIVER TASK (NLINK2)

In the interim version of the SOLOLS software, NLINK2 is a nonoverlayed task which constantly monitors the communications line for incoming messages. Data is received in byte size

increments. NLINK2 unpacks the data, repacks it two bytes per computer word and sets the flag for the processing task, PROCT, when a message is complete. The driver task involves subroutines MUXR2, BUFGT and UTBYT. NLINK2 and MUXR2 are responsible for the general bookkeeping functions of the task. BUFGT is responsible for the coordination with the multiplexer interrupt service routine and accepts the multiplexer output one word at a time (one data byte/word). UTBYT is responsible for extracting the data byte and reformatting two data bytes to a computer word. Figure 12 is a flow diagram illustrating the operation of the NLINK2 task.

#### IV. COMMUNICATIONS PROCESSING TASK (PROCT)

PROCT acts as the communications processing task. It is nonoverlayed in the interim version of SOLOLS. It examines the message header (to determine the nature of the message, the source and destination computers and devices) and routes the data accordingly. Appropriate acknowledgement is also generated and relayed to the source computer via the MUXWT subroutine. In the interim version of the SOLOLS system, the NRL computer acts as a destination computer only. For messages destined for the NRL disk, PROCT sets the "message pending" flag for the disk write task, UPDTDB. Figure 13 is a flow diagram for the PROCT task and should be self explanatory.

#### V. DATA BASE WRITE TASK (UPDTDB)

UPDTDB is a FORTRAN code for writing SOLRAD experiment data to disk on the Data General NOVA 800 mini-computer. Different versions of the code have been written for handling IDB (Interim Data Base) data and ADB (Archival Data Base) data. Since the ADB version is the one which will be retained in the final system, this report will discuss that version.

In the interim version of the SOLOLS applications software, UPDTDB is a separate non-overlayed task. Its function is to create the data base file on disk and to simultaneously create a file directory to facilitate data retrieval.

The data base spans a 30 hour period and is organized as a circular file. Data file records are referenced according to a minute tag stored in a file directory. The minute tags cover a range from 0 to 2879 minutes (48 hours) with an even Julian day corresponding to minute tags 0 to 1439 and an odd Julian day to minute tags 1440 to 2879.

The first four sectors of the data file contain the file directory. Words 1 to 124 are reserved for header and pointer information while words 125 through 1024 are reserved for the minute tag circular file. The next 4500 sectors are reserved

for the data base circular file. Each data record requires five sectors of data thus permitting 900 pages of data spanning 30 hours of observation. Position of the minute tag in the directory file and the position of the associated data in the data file are linearly related.

An ADB record includes a full page of telemetry data and consists of 17 words of header followed by 1024 words of data. The organization of the ADB header is given in figure 14. The organization of the 1024 words of data coincides with that of the telemetry stream. ADB information is received in five (5) installments with 240 words in each of the first four installments followed by 81 words in the final installment. Data is written to disk in groups of 256 words and requires five (5) disk sectors for one page of data. One of the functions of UPDTDB is to provide the interface between the disparate lengths of the received data block (240/81 words) and the disk write data block (256 words).

The file directory header contains information identifying the time period covered by the data base, a pointer indicating the position of the last entry in the directory (IDP), a pointer indicating the last entry in the data base file (IDBP) and a pointer to the earliest minute tag on the reference Julian day (JDTP). These pointers are essential to the proper maintenance of a circular file. The reference Julian day is always the most recent even Julian day where the Julian day is reckoned from January 1, 1976. The organization of the file directory header is shown in figure 15.

The disk write task operates in a multi-tasking environment. The procedure for accomodating the multi-task objective is that UPDTDB checks for a data flag (set by PROCT) when given control by the TASK SCHEDULER. If it finds that its flag has not been set, (implying that a data message is not waiting to be processed) it suspends itself for a programmed interval. After the prescribed interval it is readied again so as to be in a position to accept control when granted by the TASK SCHEDULER. In the event that the data flag is set when UPDTDB has control of the CPU, it performs the functions as outlined in the flow diagram of figure 16.

System constraints dictate that the size of a data message should not exceed 250 words. Of these at most 240 words are data. The remainder consist of communication control words and three words of fill.

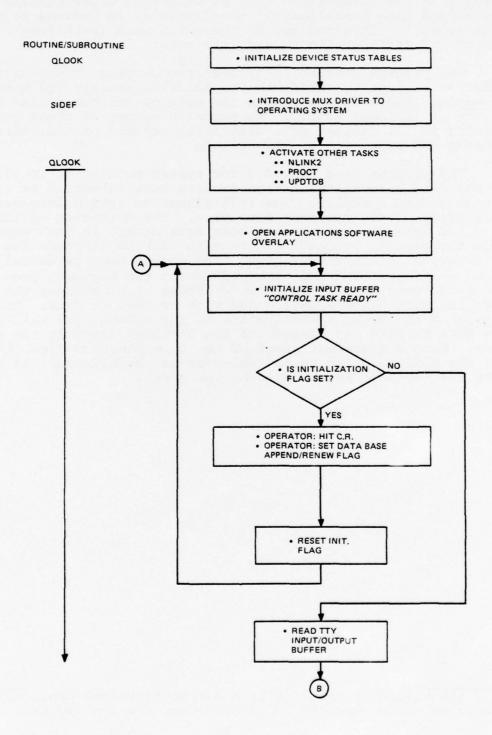
Economical use of core memory demands that data be written to disk in comparable installments rather than queued up in memory until a complete page of data is received. A natural size for a write block is 256 words, the size of a disk sector. The disparity between the size of the receive and write blocks

results in the first write to disk occurring after receipt of the second data installment. The directory is updated at this time as well. Upon receipt of the fifth data installment, the fourth and fifth writes to disk are made.

The program automatically performs certain checks on the received message to verify that a bonafide message has been received. These checks are on the data descriptor index\* and on the installment number. An error in either of these quantities results in the display of a diagnostic message on the control console and rejection of the message.

The program also provides for system activation involving either data base initalization or data base extension at the option of the operator. The initialization option involves the discarding of the resident data base. The extension option involves appending to the resident data base. In the "append" mode the program proceeds to write to disk as if there had been no interruption in the program. The append mode is useful in cases where the NOVA has "crashed" while the Raytheon preprocessor continues to run. Under these circumstances the Raytheon will build a data queue with no loss of data. Upon repair of the NOVA, re-activation in the append mode will cause the NOVA to read and dispose of the Raytheon queue at the maximum rate. With the present speed of the communication link, the time for the NOVA to catch up to real-time is roughly equal to the time the Raytheon spent building the queue.

<sup>\*</sup>For a detailed description of the communications protocol refer to the documentation of the communications system.



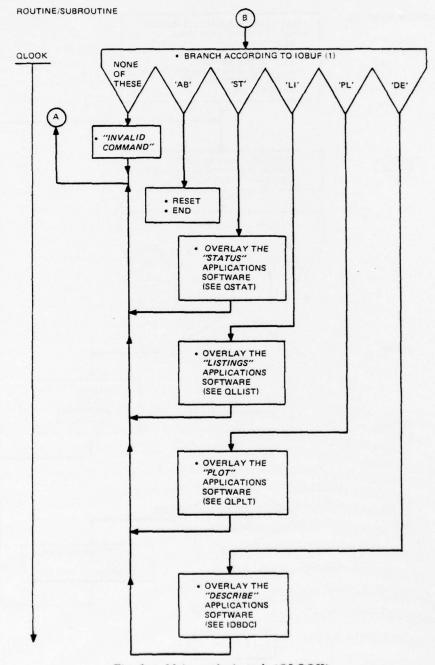


Fig. 1 - Main analysis task (QLOOK)

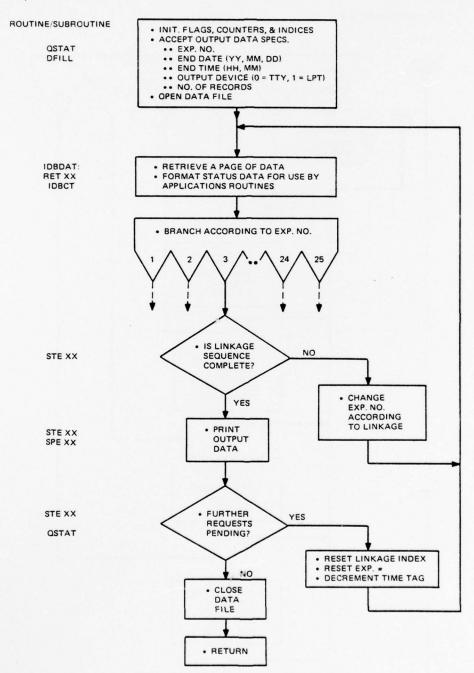


Fig. 2 — Status display executive (QSTAT)

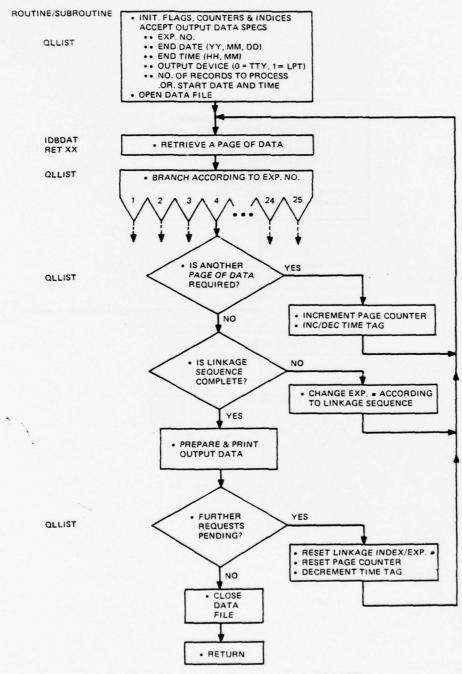
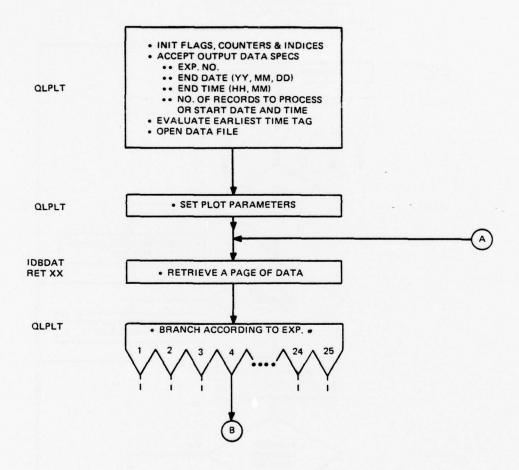


Fig. 3 - Listings display executive (QLLIST)



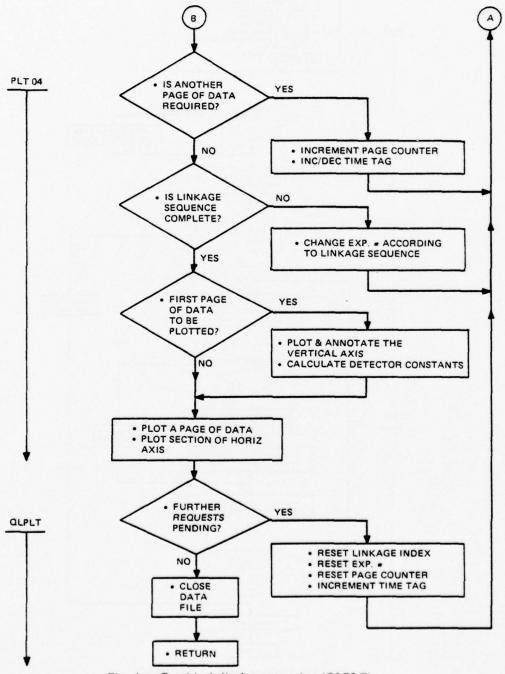


Fig. 4 — Graphical display executive (QLPLT)

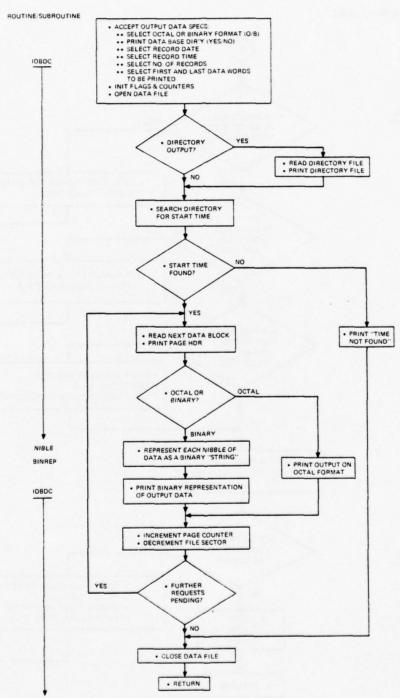


Fig. 5 — Data describe task (IDBDC)

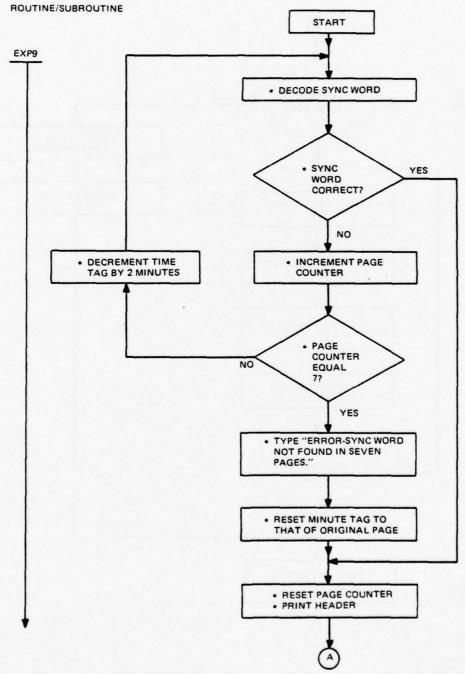
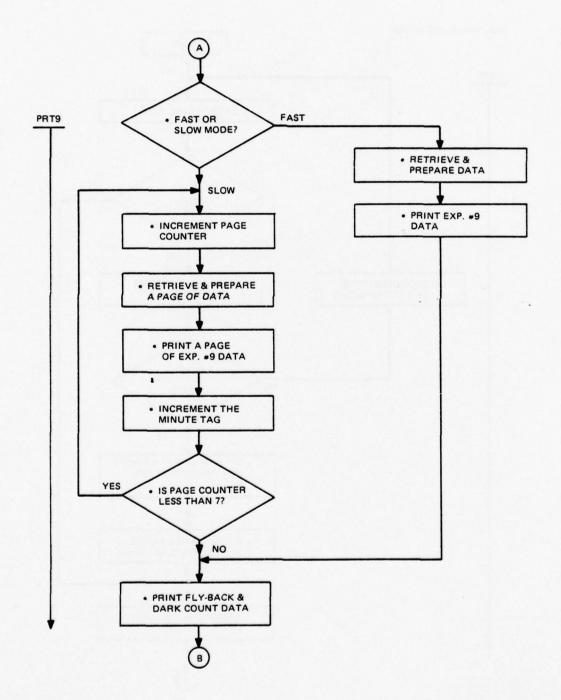


Fig. 6 - Experiment #9 (UV spectrometer) listing (EXP9) (Continues)



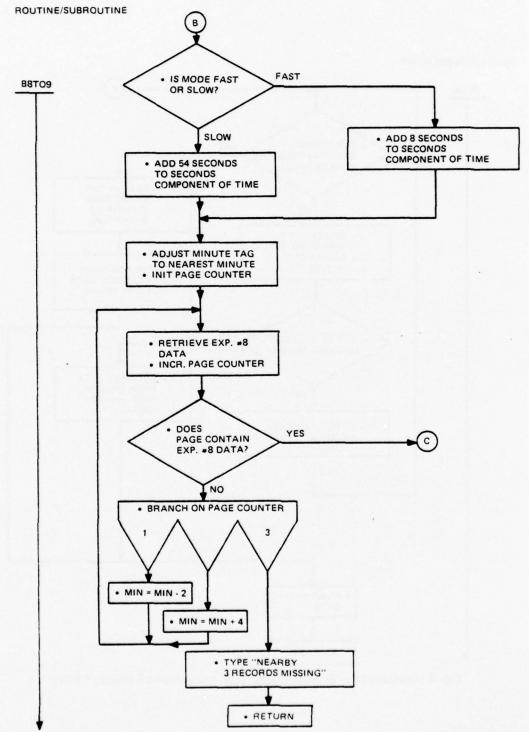


Fig. 6 (Continued) - Experiment #9 (UV spectrometer) listing (EXP9)

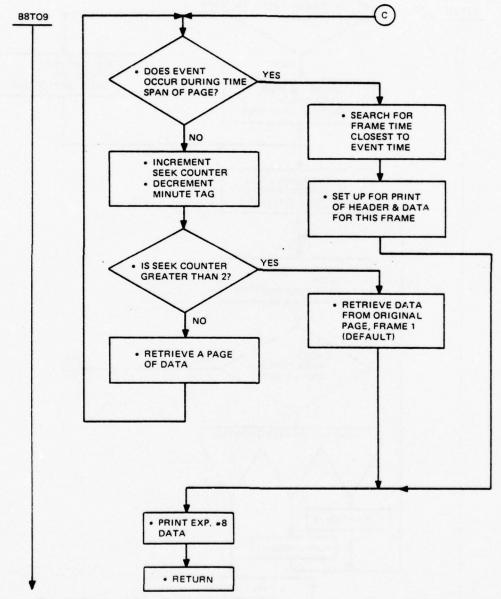


Fig. 6 (Continued) — Experiment #9 (UV spectrometer) listing (EXP9)

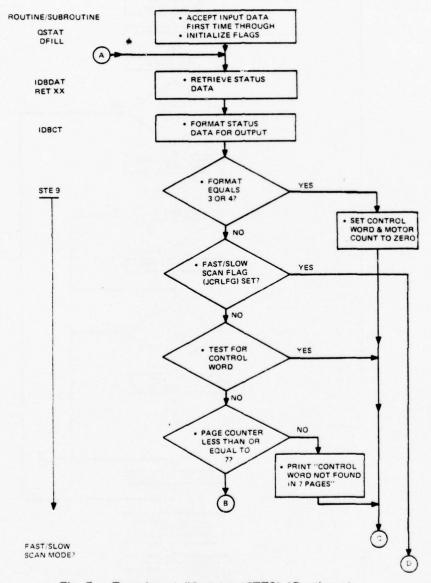
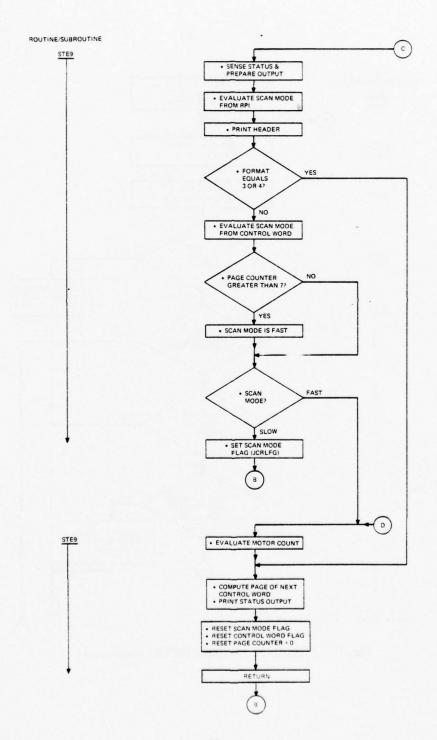


Fig. 7 — Experiment #9 status (STE9) (Continues)



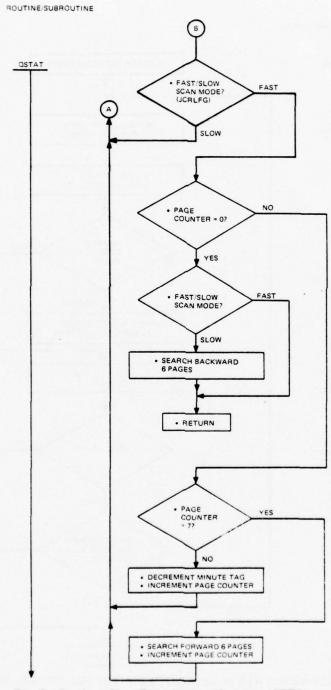


Fig. 7 (Continued) - Experiment #9 status (STE9)

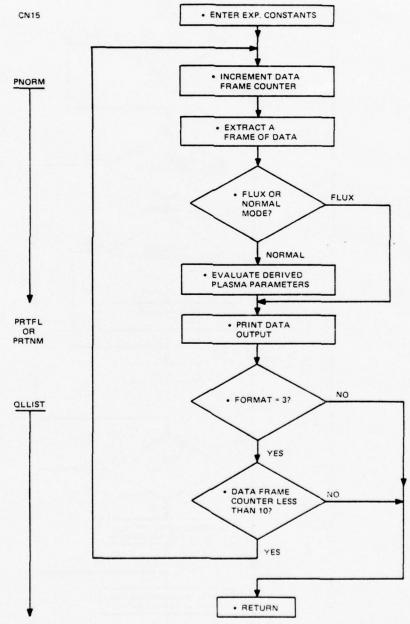


Fig. 8 — Experiment #15 (solar wind) listing (PNORM, PRTNM, PRTFL)

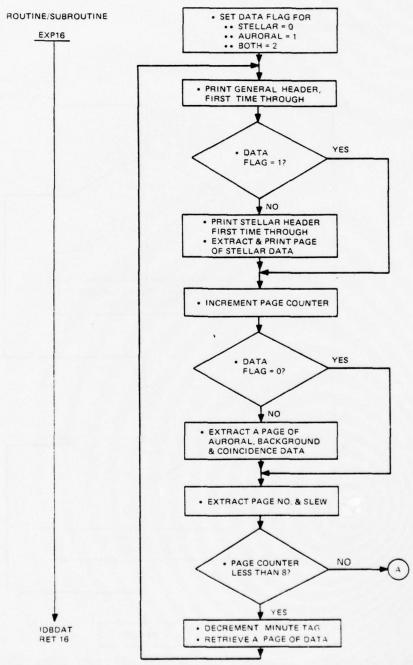


Fig. 9 - Experiment #16 (stellar/auroral x-rays) listing (EXP16) (Continues)

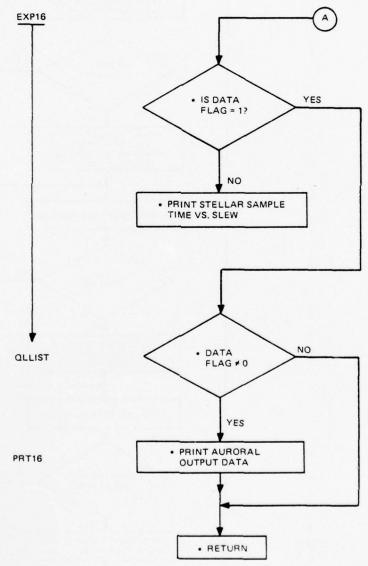


Fig. 9 (Continued) — Experiment #16 (stellar/auroral x-rays) listing (EXP16)

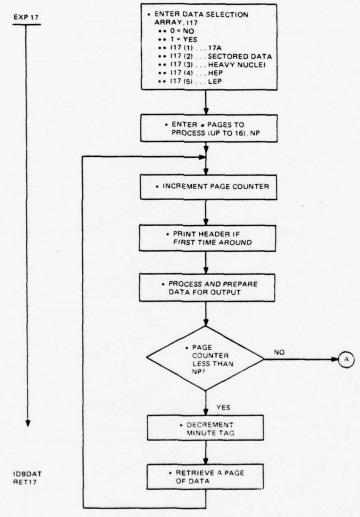


Fig. 10 - Experiment #17 (omni solar protons) listing (EXP17) (Continues)

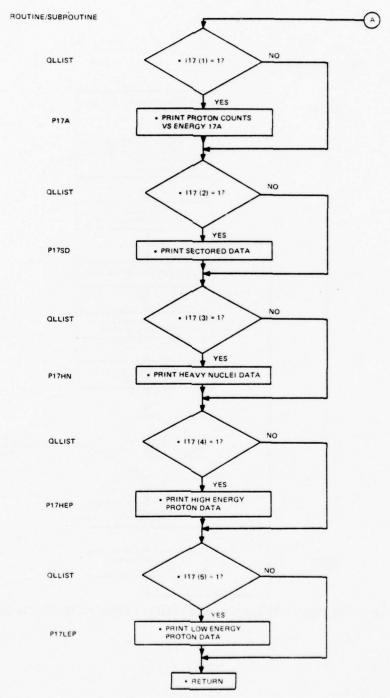


Fig. 10 (Continued) - Experiment #17 (omni solar protons) listing (EXP17)

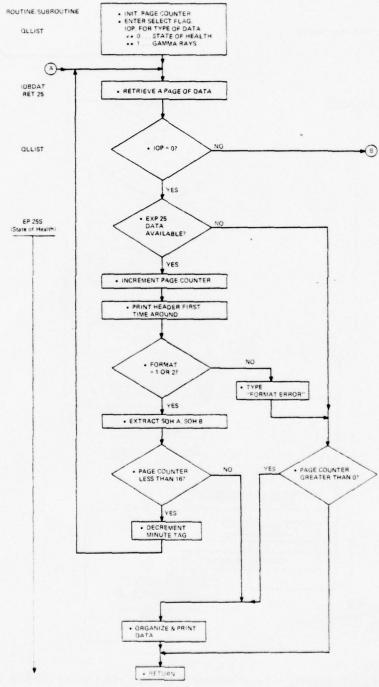


Fig. 11 - Experiment #25 (gamma rays) listing (EP25S, EP25G) (Continues)

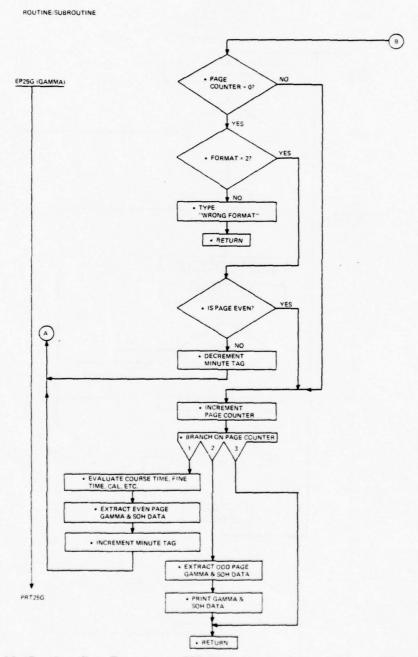


Fig. 11 (Continued) — Experiment #25 (gamma rays) listing (EP25S, EP25G)

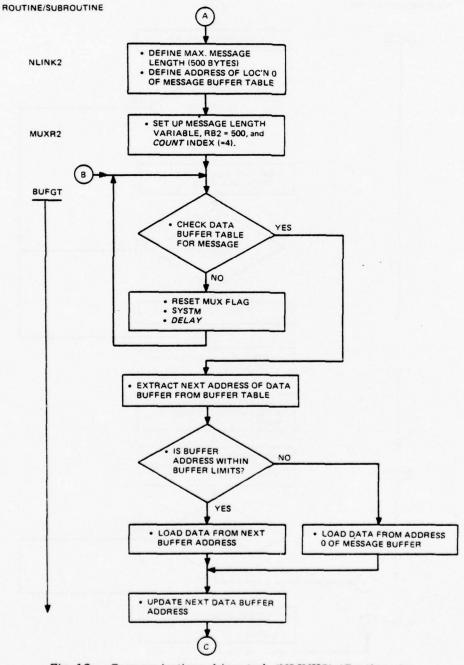


Fig. 12 - Communications driver task (NLINK2) (Continues)

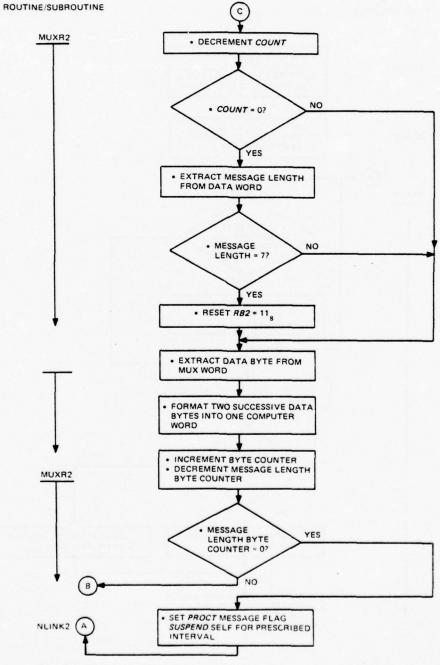


Fig. 12 (Continued) - Communications driver task (NLINK2)

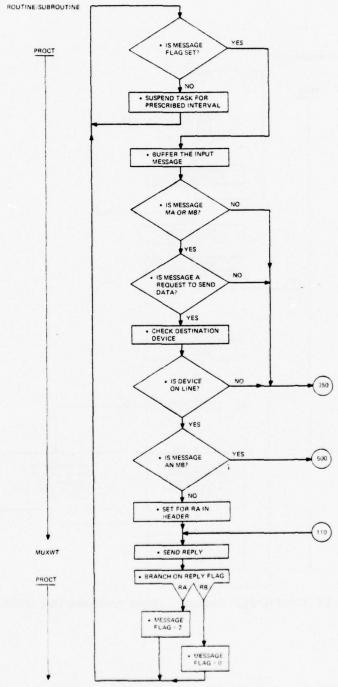


Fig. 13 — Communications processing task (PROCT) (Continues)

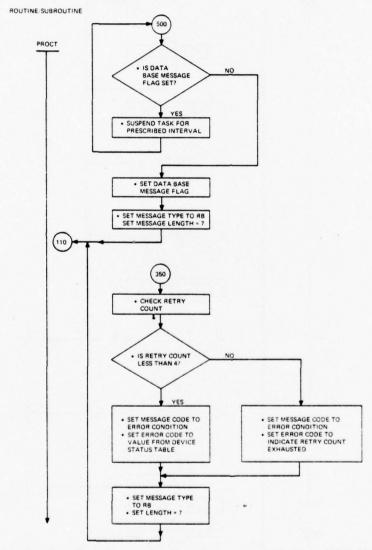


Fig. 13 (Continued) — Communications processing task (PROCT)

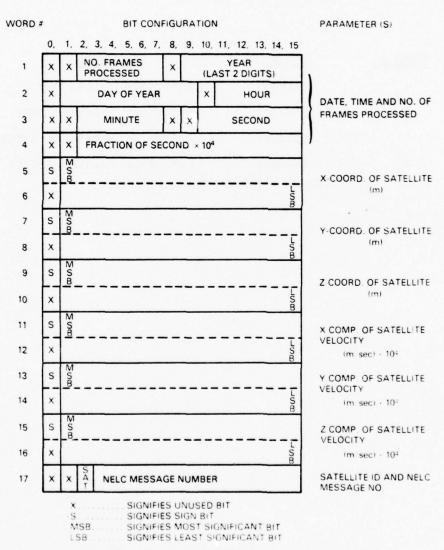


Fig. 14 - Archival data base header

WORD #	FORMAT	PARAMETER
1	Integer	Reference Julian Day
2	Integer	Directory Pointer (IDP)
3	Integer	Julian Date Pointer (JDTP)
4	Integer	Data Base Pointer (IDBP)
	Fig. 15 - Data ba	ase directory header

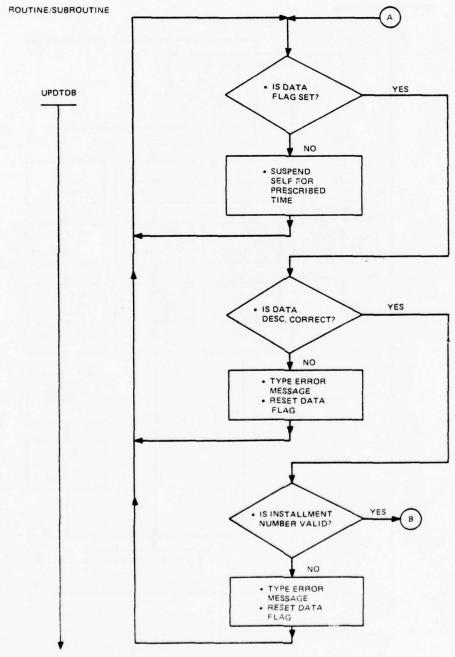
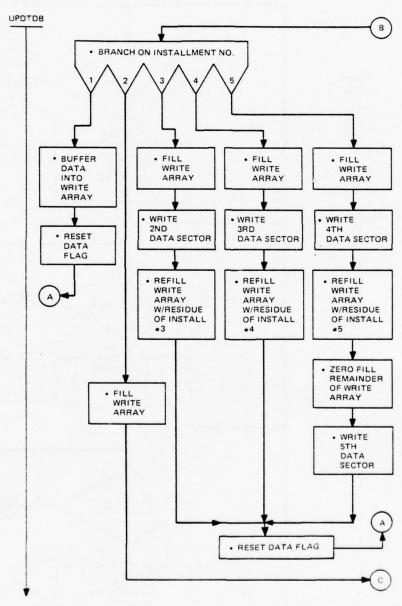


Fig. 16 - Disk data base write task (UPDTDB) (Continues)

#### ROUTINE/SUBROUTINE



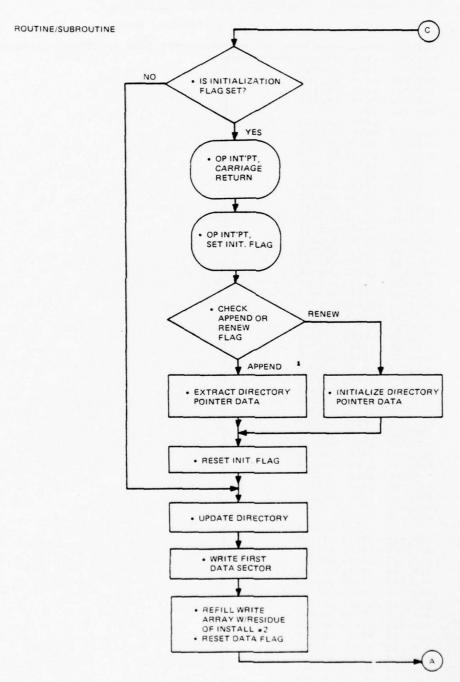


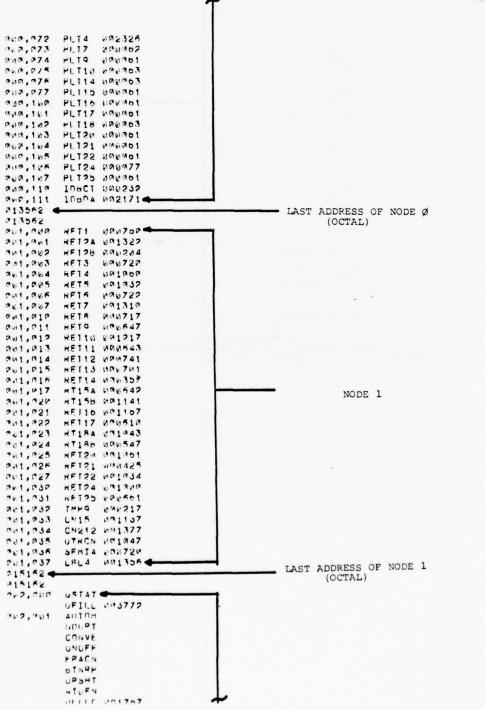
Fig. 16 (Continued) - Disk data base write task (UPDTDB)

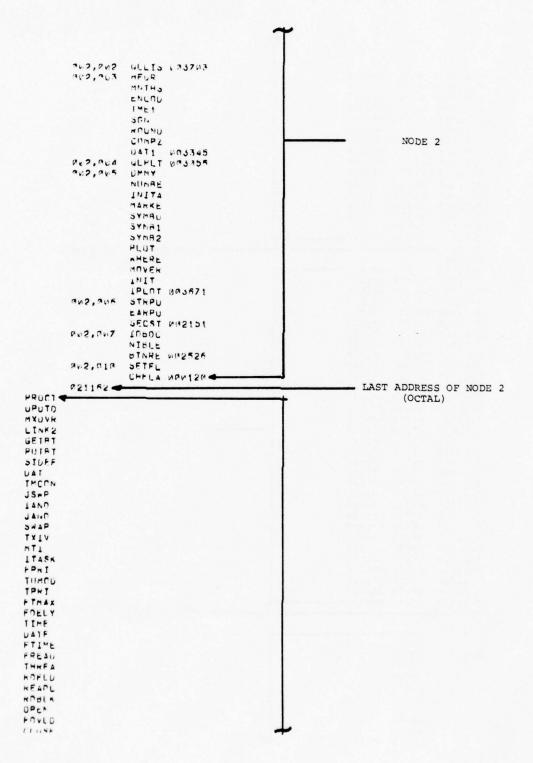
SEST AVAILABLE COPY

## APPENDIX A: RELOCATABLE LOADER LISTING (SOLOLS)

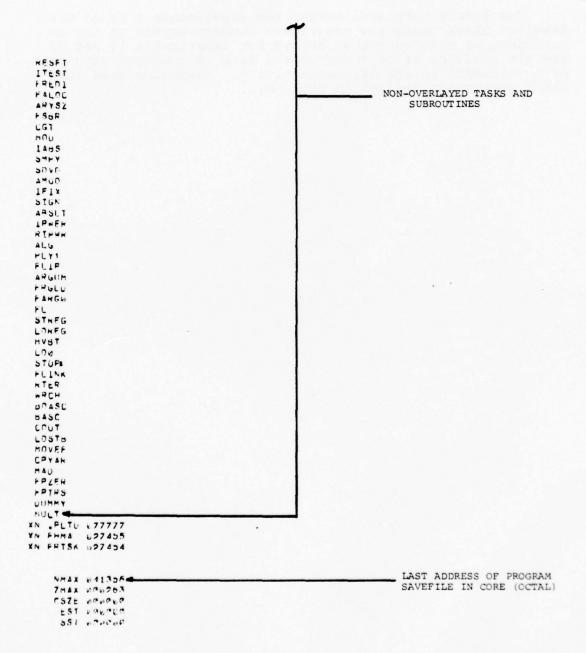
QLOUK.SV LUADED BY RLOK KEY 43.01 AT 21:33:11 12/22/75 MAIN - LAST ADDRESS OF QLOOK-MAIN 911162 969,960 EYF1 M92969 € (OCTAL) AND DAT EXPS 001715 167,062 EXF3 we2125 960,963 EXP4 001713 740,204 PRTA V.01774 AND . PUS EXP7 LYPR 002704 ana, aus PRI7 641615 000,007 EXP10 001340 000,010 EXP11 000433 aua, 411 PRTIU MAISUS EXP9 801230 PRT9 801707 240,012 000,013 060,014 BAT19 MA2423 000,015 EXP14 401637 949,016 PNORM 491237 960,917 PRIFL MAINTI 000,020 PRINM 891435 aua, 021 aua, 022 EXP15 602245 PRT16 001404 EXP17 891502 200,023 949,024 F1750 671172 240,025 . 000,026 P17HN W71734 767.727 PITHE WALASA 900,000 P17LE 401957 000,031 EXP18 601361 EXP20 001631 000,032 909,933 PRT20 002205 200,034 EXP21 V#1734 EXP22 M02124 000,935 000,036 PRT22 001755 EXP24 271572 909,937 NODE Ø 909,940 EP256 872201 ava, 041 EP255 002105 QUA. 242 PRT25 002331 000,043 STET WO1346 000,044 STE2 VORMOR PNA, 745 STE3 001204 000,046 STE4 491379 SPE4 4.01245 242,247 STE7 UM2173 949,050 200.051 947,457 STE14 TMP17 671717 900,953 STEIN NOTING 444,054 SPETU MA1501 949,955 STE15 491631 STEID MAISIE AUM, ADE 240,057 STE18 001625 747, 76V STE20 102240 STE21 801736 100,001 000,002 STE25 VM1721 047,003 STE24 NU1250 000,000 PRTAL MAITTA 340,065 PP142 001213 949,005 PPTAS MANTUS 960,067 PLTT1 MAMARI PLT2 000 401 000,070 0.10.071

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# APPENDIX B: DATA LAYOUT IN STATUS RETRIEVAL ARRAY

The status retrieval arrays for experiments 1 to 25 are labelled NARXX where the experiment numbers appear in the XX position. Status retrieval arrays for experiments 19 and 23 are not included since their status data is combined with that of experiments 18 and 14, respectively. Mnemonics used in NARXX arrays are defined in Table B:1.

### TABLE B:1 MNEMONIC GLOSSARY

- lA HVlA Voltage Setting
- 1B HV1B Voltage Setting
- 2A HV2A Voltage Setting
- 2B HV2B Voltage Setting
- Al Wide-Fine Sensor Select
- AB A/B Select
- AC Attitude Control System On/Off
- AD Analog Reference Monitor
- AS Analog Monitor Identification
- CA Calibration A On/Off
- CB Calibration B On/Off
- CT Calibration Timer On/Off
- DA Data Crossing A
- DB Data Crossing B
- EA Electronics A On/Off
- EB Electronics B On/Off
- EC Electronics C On/Off
- EF Event Flag
- EO Earth Aspect On/Off
- EV Event Counter
- FS Fast-Slow Scan Rate
- Gl Visible Earth Gate 1
- G2 IR Earth Gate 2
- G3 Earth Gate 3
- G4 Earth Gate 4
- G5 Solar Gate 5
- G6 Star Gate 6
- G7 Earth Gate 7
- G8 Star Gate 8
- G9 Solar Gate 9
- HA High Voltage A On/Off
- HB High Voltage B On/Off
- H1 High Voltage Monitor A
- H2 High Voltage Monitor B

- LG Logic On/Off
- L1 Low Voltage Monitor A
- L2 Low Voltage Monitor B
- MA A Auto/Manual Select
- MB B Auto/Manual Select
- MC C Auto/Manual Select
- ME Memory Identification
- MT High-Low Motor Torque Setting
- M1 Normal-Optional Sampling Mode
- M2 Normal-Optional Sampling Mode
- PTD1(R) Programmable Time Delay 1 (Right Byte)
- PTD1(L) Programmable Time Delay 1 (Left Byte)
- PTD2(R) Programmable Time Delay 2 (Right Byte)
- PTD2(L) Programmable Time Delay 2 (Left Byte)
- PTD3(R) Programmable Time Delay 3 (Right Byte)
- PTD3(L) Programmable Time Delay 3 (Left Byte)
- PTD4(R) Programmable Time Delay 4 (Right Byte)
- PTD4(L) Programmable Time Delay 4 (Left Byte)
- PTD5(R) Programmable Time Delay 5 (Right Byte)
- PTD5(L) Programmable Time Delay 5 (Left Byte)
  - RA A Range
  - RB B Range
  - RC C Range
  - RM Ratemeter
  - RR RC Register
  - SH Shutter Position
  - SI Stellar Lock Indicator
  - SO Stellar Aspect On/Off
  - SS Sector Identification
  - ST State-Of-Health (SOH) Data
  - TA Temperature Monitor A
  - TB Temperature Monitor B
  - TC Temperature Monitor C
  - TD Temperature Monitor D

- TBR1 Time Between Register 1
- TBR2 Time Between Register 2
- TBR3 Time Between Register 3
- TBR5 Time Between Register 5
  - TH Threshold Control
  - TM Temperature Minco
  - VA HVA1-2 Select
  - VB HVB1-2 Select
  - WP Wheel Position

Status Array, Exp #1 Table B:2

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Table B:5 Status Array, Exp #4

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Table B:6 Status Array, Exp #5

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//**************	`	`	٠.		۸,	٧,	٠.	N	`	1	٧.	١,	\	1	`	1	4
C*****************	`	٠.	•	١,	٧,	۸.	٠.	1	`\	٠.	`	`\	٠,	٠.	`	1	S.
//****************	٠.	`	1	٠.	٦,	٨,	`	11	١.	٠.	٠.	`	`	`	\	1	9
C*************************************	1	`	1	*	7	*	*	1/1	`\	٧.	٧,	`	٩.	١.	`	1	~
C*************************************	1	١.	`.	١,	١,	\	٧.	1 1 11 11 1	٠.	۸.	1	`.	`	٠.	`\	1	œ
C***************	1	1	1	\	`	\	1	1	٠.	١.	`.	`*	١,	\	\	1	9
C*************	`	١.	1	`	1	\	٧.	1	١.	`	١,	٠.	1	1	`	1	Ö
//***************	1	1	٧.	`.	\	`	٠.	1	`\	\	٠.	`\	1	1	1	1	7
//************C	1	1	`	١.	N	\	`	1	`.	\	`	1	\	1	`	1	Ņ
と	7	*/*	1/4	*	Š	*/*	*/*	1/1	1	1	١.	`	1	1	\	1	ğ
ノノメオオオオオオオオ	1	`	`	1	1	1	`	7	×××	*/*	$\stackrel{\star}{\sim}$	**		5	*/*	1/	4
ノノ米米米米米米米米米	1	`	1	1	1	1	1	1	1	\	\	\		1	1	1	Š
ノン米米米米米米米米	1	1	1	1	1	1	`	1	`	`	1	1		1	1	1	9
C***************	1	\	1	`	1	1	`	!	1	\	1	1	1	1	\	1 1127	~

Table B:7 Status Array, Exp #6

BIT NUMBER //	ò	7	હે	ò	4	6	ò	112	à	9/16/11/12/13/14/15//	0/1	171	27	3.1	17	1/2	
C*************************************	1	1	۸.	1	1	1	١.	1	1	1	1	1	1	1	٨	1	-
C*************	1	1.	1	٨.	1	1	1	1	1	1	`	1	\	1	S	1	CI
C************	1	`	1	1	`.	٧.	Ä	1	1	1	٠,	`	1	1	1	1	m
アオオオオオオオオオオ	1	`	٠.	1	1	1	٠.	1	`	1	1	\	٧,	1	`	1	4
ン**********		1	٠.	٠,	١,	٨.	1	1	1	1	`	`	`	٠,	۸,	1	S
C*************************************	1	`	•	\	**.	۸,	₹	14/	1	1	٠,	`	1	1	`\	1	ø
C************	1	1.	`	`	٠.	٠.	٧,	1	`	1	1	\	1	`	1	1	~
C***************	1	`	1	*,	١,	1	١.	1	`	1	`	1	٠.	1	*	1	œ
C*************	1	`	`	١,	٠.	1	٠.	1	۸,	\	١,	`\	٧.	\	N	1	o,
C**************	1	٠.	`\	1	٨.	١.	(1)	\H0\ H0\	`	\	1	`\	`	١.	1	11	Ø
C***********	1	`	``	4	*	1	٠.	1	۸.	١,	٦.	١,	`	`	1	1	-
C*************************************	1	`.	1	`	**	٧.	٦.	1	۸.	\	٠,	٦,	۸.	*	* RA	R//1	ત્ય
C*************	1	`	``	٦.	1	`	٠,		1	١	٧.	`\	٠,	`	١,	1	m
C************	1	٠.	`	٦,	٠.	`		1	•	1	٧.	1	٠,	`	٠,	1/1	4
C***************	× .	`*.	•	1		٧.	٠.		١.	١,	٠.	٧,	`	`\	١,	1	S
C***************	1	1	1	1.	`\	`		1	1	١,	٠,	`\	`	`	`\	11	ø
C*************	1	`	`	**	¥ / K	3	<b>*</b>	1	٠.	1	١,	٧.	1	`	\	1/1	~
C****************	1	`	1.	\	`	1	¥,	1	٠.	١,	٠.	`	١.	1	`\	1	တ
C*************	1	`	N.	\		`			`.	٧.	٠,	`	١.	`\	`\	11	g
C************	1	`\	1	1	1	`	1		`	1	`\	١.	١.	`	١,	1/20	Ö,
C***********	1	1	\	1	1	`	`\		`\	1	1	1	1	\	`	1	=
****************	1	1	\	\	`	`	•	1	`	1	`	٠,	\	\	`	1/0	ķ
C************C	\**/	\ <u>*</u> *	11/##/	X	**/**/**	**	**/*	\\*	١.	\	`	`	`	\	1	10	ŭ
C************	1	1		1	1	1	1	1	1	1	\	\	\	\	`	11	*
**************	'	`	\	1	`	\	\	1	`	1	`	\	`	\	`	1/2	Ñ
C************	'	1	1	`	1	1	1	1	\	1	\	\	\	\	1	1/3	9
C************	1	1	1	1	`	`	1	1	`	1	\	\	`	`	\	1/2	~

Table B:8 Status Array, Exp #7

C************************************	**	*	**	***	**	Ā	HRR	自RREPY未来来来来来来来来来来来来来来来来来来来来来来来来来	***	*	**	***	***	***	***	**	*
BIT NUMBER //	6	4	à	è	4	જે	ò	12	ò	9/10/11/12/13/14/15//	0/1	Z	2	37	47	2//	
C**************	1	٧.	1	1	`	`	1	1	`\	1	1	1	1	`	1	1	-
C**************	1	٠.	1,	۸.	`\	1	\	1	`.	1	`	1	1	`	Ź	/CA/	CI
C************//	1	1	1	٨,	1	1	M	177	١.	`	`*.	1	٠,	1	1	1	M
C**************	٧,	1	٠.	۸,	١.	٧,	٠.	1	1	٠,	٠.	`	\	`\	1	1	4
//**************	`	١.	1	*.	1	*	1	1	٠,	1	\	٠.	`\	\	`	1	S
ノノオオオオオオオオオカン	٠,	٠,	٠,	1	٠.,	**	7		٠.,	`	`	١.	\	1	\	1	vo
C***************	1	٧.	*	۸.	1	`\	+	/JE/	14	1	`.	`	1	\	MP	//9	~
C****************	1	٠.	٠.	٠,	1	`.	١.	1	`	٠.	\	1	*	1	٠,	1	ω
C***********//	1	١.	٠,	*	1	`	٠.,	1	٠.	٧,	`	١.	*,	\	*	1	σı
C***********//	٠.	٠,	٠,	۸,	٠.	`.	٠.	1	1	1	`\	1	1	`\	٨,	1	10
	`	٧.	•	`	٨,	1	٠.	1	٠.	٠.,	`\	\	1	1	`	11	11
//**********	٧.	1	4	٠,	٨.	*	X **		`\	`\	`	١,	`\	*	*	1	15
C############//	1	٧,	٠.	٠.	1	1	١.	11/1	\	1	1	1	1	*	*	/**/PC//1	13
C***************	•	٧.	٠,	۸.	٠,	1	٠.	1	1	٠.	١.	1	1	`	1	1	4
C*************************************	1	٧,	٠.	1	٧,	`.	N	\	۸,	1	٠.	١,	`	1	1	1	15
レスネネネネネネネネネス/	٦.	1	١.	`	*,	*	`.	1	`	1	٠.	1	1	1	1	11	16
C*************	1	`\	`\.	٠.	1	•		1	`	١.	١,	`	١,	`\	\	1	17
C*************	٠.	1	١,	٠.	٠.	\		1	1	`	\	١,	١,	`\	`	17	138
C*************/	`	١,	1	1	`	•		N	`	`	۸.	`\	١.	1	\	1	5
C***********//	1.	١,	`.	1	١.	1	1	1	`	`	`	٧,	١.	`	`	/ //20	20
C*************/	1	1	1	1	1	1	٠.	1	1	1	`	\	1	\	1	1	2
1	٧.	1	1	`.	١.	1	1	1	1	`	1	٧.	1	\	\	1	S
とネネネネネネネネス	*/*	7	7	$\frac{\pi}{2}$	<u>\$</u>	₹ *	**	1/1	`	`	`	1		`	\	1	23
C***************	*/*	7	5	Ş	₹ *	₹ *	*/*	マン苦	***	*/*	X	*			*/*	1/*	24
C*************	`	1	`	N	`	1	`	11111111111	`	`	`	'	\	\	\	1	52
C*************	\	1	`	1	1	``	\	11	1	\	1	1			\	1	56
ノノメオオオオオオオ	\	1	1	1	`	1	1	1	1	\	\	\			1	1	27

		-	c1	m	4	n	Ø	~	ω	Ø,	10	11	N	1	4	15	16	17	13	9	80	2	22	53	4	53	56	2
	9/16/11/12/13/14/15//	HBY	1/40	1	11	1	11	11	1	1	1	/SH//11	/RA//	1/1	1	11	1	11	11	11	11	11	11	11	11	1/2	11	11
	4	7	7	1	1	`	1	1	*	1	١,	1	$\frac{1}{2}$	`	١.	1	1	`	1	1	1	1	1	1	1	1	1	•
	37	1	1	`	`	١,	1	١,	\	1	`\	`	*	1	`	1	1	`	1	1	1	1	1	`	1	1	`	`
	2	1	1	١,	`	`\	1	\	`	١,	١,	`\	٠,	١,	٨.	`	\	`	١,	`	`\	`	1	1	1	`	\	1
	Z	1	\	`	×	٧.	`	`	`	1	۸.	٧,	٠,	١.	١.	`\	N	١.	١,	`	٠.	`	1	\	\	\	`	1
	7	1	`	`	`	`	`	`	١,	\	`\	`	`	٠,	`\	`	1	1	٠.	`.	٧,	`.	1	`	`	\	1	\
	9/16	1	`	`	`	`\	1	`	`	`	\	`\.	`\	`	`	`	`	`\	١.	`	`	`	\	`	`	`	\	\
	à	\	1	1	\	`	١,	`*.	۸,	٠,	1	1	١,	٠,	٨.	1	•	`*.	`\	`	1	`	1	`	`	`	`	1
	122	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1/1	1	1	1	1
	6	1	`	Á	١.	\	Ξ	٠,	٧.	1	-SH	١,	1	\	٠,	1	`\	١	`\	1	1	\	\	**/*	1	\	\	`
	ત્ર	1	`	1	1	`	٧,	\	`\	\	\	1	٠.	`	1	`	`\	`	1	1	1	1	`	*/*	1	`	1	\
	4	1	۸,	١,	1	1	`\	٠,	`	٠.	٠.	1	٠.	1	١,	`.	٧,	٧,	٠.	1	`	`	1	*/*	\	1	\	1
	è	1	٧.	1	۸,	٧,	`\	\	١.	\	`	٠,	`\	1	٠.	٧.	`	١.	1	٠.	٧.	1	`	*	1	`	`	1
	à	٧,	`\	1	1	`	۸.	1	1	1	٠.	٠,	×.	٧,	`\	١.	1	1	١.	٧,	`	1	1	17	`	1	1	1
	7	1		١,	`	N,	٧,	Ŋ	٧,	١,	٧,	`\	٦.	٧,	٠,	٧,	1	۸.	1	٧.	1	1	`	*/*	1	1	1	1
	è	1	1	1	٧.	٠,	٠,	•	`	٩.	٠.	`	١.	`	١.	`.	1	`	`	`	1	`	`	*/*	\	1	1	1
	1	1	1	1	1	1	1	1	1	1	1	1.1	11	1	1	11	1	1	1	11	1	1	1	*//	11	1	11	1
		*	*	**	**	**	*	*	*	*	**	**	***	**	***	***	**	**	**	***	***	**	***	***	***	**	**	XXX
	MEE	*	**	*	*	**	*	*	*	*	*	*	**	*	*	*	*	**	*	*	*	**	**	**	**	**	**	**
	₹	*	***	**	**	***	**	**	**	**	***	**	***	**	**	***	***	***	***	***	**	***	***	***	***	***	***	***
	BIT NUMBER	**********	C************	***********	*********	********	\**********	/***************	******	********	********	\***************	/*************************************	C*************	*********	/*************************************	********	/*************************************	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\************	C************	\**********	**********	_**********	\*********	<b>ノ**********</b>	**************************************	**
,	ω	5	Ö	Ö	Ö	Ö	Ö	Ö	Ü	3	Ö	Ö	0	ΰ	Ö	ü	Ö	C	Ö	ü	Ö	Ö	Ö	Ö	Ö	Ö	3	Ö

Table B:10 Status Array, Exp #9

BIT NUMBER //	0	7	à	è	4	ò	à	111	à		0.1	7	N	9/10/11/12/13/14/15//	7	1
//************************************	1	1	`	1	1	1	1	1	1	1	1	`	1	`	1	1
/**************************************	١.	٠.	1	١.	`	•	`	1	`	`\	`	1	`	`	1	1
C**********/	٠,	۸.	٧,	١,	1	٠.	M	/EA/	1	1	1	1	1	`	1	1
C**************	٠.	١,	1	١,	٠.	١.	٧.	1	1.	1	`	`	1	1	\	1
C*************************************		1	1	1	1	1	٧.	1111111	1	٠.	`	1	1	`	Ĭ,	1/3
<b>C***********</b>	٧.	1	`	1	١,	1	٠.	1	1	`	`	`	1	\	1	
C*************************************	١.	٧.	١,	١.	1	1	`	1	1	1	1	`	1	1	1	
C**************	٠,	١.	1	*	1	۸,	5	// <u>H</u>	1	`	`	1	\	`	١.	
C**************		٠.	`	١,	1	1	٠.	1	1	1	`	`	١.	1	`\	1
C***************//	`\	`	`~	\	1	٨,	*	1	١.	١.	`	`\	`	`	`	1
//************************************	`	١,	٠,	1	١,	1	٠,	1	1	`	٠.	١.	`	`	`	1
C*************************************	١.	١.	1	`	1	٠,	`	1	٠.	`	*	N		`	`	1
C**************	٠.	•	1	١.	`	٧,	٠.	1	`	`	۸,	١,			`	1
C**************	1	١,	`	1	~	2	**	\\ <del>\\</del>	1	٧.	`\	1	1	1	\	1
C*************************************	٠,	٧.	١.	۸.	1	٠,	٠.	1	1	٠.	`	٠.	1	\	٠.	1
ノノオオオオオオオオオ	1	١,	١,	١.	1	4	٠.,	1	`	٠.	`\	1	`	1	`	1
ノンオギオオオオオオオオ	1	٧,	١.	`	1	1	۸,	1	`	`	1	`	`	`	1	1
//************************************	1	`\	`	1	١.	1	*	1	1	1	٠.	`.	1	`	4	//18
<b>レ</b> *************	1	١,	`\.	۸.	۸,	1	`	1	`	`.	`	٠,	`	\	1	1
ノンオオオオオオオオオン	1	1	1	1	1	1	١.	1	١.	`	١.	`	1	1	`	1
C**************	1	1	`	1	1	1	٠,	1	× *	***	H_\*	*	*/*	*	*/*	//×
C************************************	٠,	1	1	1	\	1	1	1	\\ \tau \\ \ta	**	7	*	*/*	11/**/**/**/**/22	*/*	1/1
*//***********	*/*	**	>	7	**	~	**	\\*	`	`	`	`	`	`	1	1
<b>C***********</b>	1	\	1	1	1	1	١.	1	1	1	1	1	1	1	1	1
ノノメオオオオオオオオオ	`	\	1	`	\	1	\	1	`	\	`	\	`	1	`	1/25
<b>C***********</b>	`	1	1	1	1	1	`	1	1	1	1	1	1	\	\	1
//***********************************	1	\	1	\	1	1	`	1	1	\	`	\	`	`	1	1

Table B:11 Status Array, Exp #10

ong Itis argustang sa	**	#		***	# #	P. R.	ARR.	Status Ailay, AR ARRHY***	**	***********	* * * * * * * * * * * * * * * * * * *	*	*	*	*	cus Allay, bxp #lo ARRHY*********************	*
BIT NUMBER //	9	1	à	m	4	à	à	112	ò	9/1	97	9/10/11/12/13/14/15//	2	3/1	7	1	
//***********	1	1	`	1	*	1	1	1	1	1	1	1	1	1	1	1	-
C************************************	1	١.	١.	٧.	`	1	1	1	1	`	1	1	1	\	3	1/4	N
C***************	`	1	^	1	٠,	`	M	A	`	`	`	\	١.	1	`	1	M
C**************	`	1	١,	٠,	٠.	1	`	1	`	1	١,	`	\	`	`	1	4
C*****************	٠.	`	`\	٧.	1	١.	Ŧ	144/	\	1	1		`	1	\	1	n
C**************	`	٧.	`\	٠,	٠.	`	*	1	`	`	`	`	`	`	HE.	1/0	w
C***************	`\	N	١,	٧.	٠.	`	٨.	1	\	\	1	1	1	1	`	1	1-
ノノメメメメオオオオオオ	`	1	`	*	`	`	`	1	`	`	`	`\	`	\	`	1	co
C************//	1	1	1	١.	٠.	`	٧,	1	`	1	`	۸,	١,	`	`	1	o.
C**************	`	1	٠,	۸.	`	`	1	1	1	1	٠.	1	1	`	\	11	Ø
ノノメメメメメメメメメ	1	1	`	1	٠.	1	٠,	1	1	``	`	\	`	1	`	17	-
//***********	`	`\	1	1	`	\	`	1	`	`	1	1	١,	\	\	7	N
ノンオオオオオオオオオオ	`\	1	٠.	٨.	`	`	٠,	1	`	1	۸.	`	\	\	`	1/1	m
C*****************	*	٠,	٧,	`	`\	`	`	1	1	1	`	`	1	`	`	1	7
ノイ米米米米米米米米米	`	٠.,	١.	1	٠.	٠.	٠.	1	٠,	٠,	٠,	`\	×	\	`	7	S
C***************		`*	٧.	`.	*	1	•	1	1	٠.,	`.	`	1	`	`\	7	o
ノノネネネネネネネネネネス	1	1	`	1	`	٠.	٠.	1	\	1	1	1	`\	`	`	17	~
C***************	٧.	1	١.	7	5	SA.	* *	/ //**/**/DI/**/	`	`	`	`	1	`	`	7	တ
C*************	`	1	`	~	*	S H	**	1	`	`	`	`		\	\	7	o,
C**************	1	1		\	`	1	`	11	`	1			1	`		1/26	0
C************************************	*/*	**/*	2H-7	₹ 0	X **	*/**	* **	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	×	**/**	H/*		-	**/*	*	*//2	-
C**************	\	1	`	1	`	`	`	1	1	`		`	\	`	`	1/2	N
C*************	`	١.	`	1	`	`	`	1	\	1	١.	`		`	\	1/2	m
ノノメオオオオオオオ	1	1	1	1	1	1	1	1	1	\	`	`	\	`	\	110	7
C*************/	`	1	`	`	١,	`	`	1	\	`	`	`	`	\	`	1/2	S
C**************	'	1	1	1	1	1	1	1	1	`	1	\	1	1	1	1/2	10
レネネネネネネネネネス	1	\	1	1	`	1	\	1	`	1	\	\	\	1	`	1/2	~

Table B:12 Status Array, Exp #11

	11111111	1111	1												20101101010101010
	,,,,,,,	11.		1	1	1	1	1	1	1	1	1	1	125/	1
		١,	١.	1	1	/85/	11	1	1	1	1	1	`	`	11
	11111		1	1	1	/EA/	11	`	1	\	\		1	69	1
C*************************************	1111		1	1	1	٠.	1	`	1	1	1	\	1	1	11
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Table B:16 Status Array, Exp #15

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Table B:18 Status Array, Exp #17

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Table B:19 Status Array, Exp #18

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Table B:20 Status Array, Exp #20

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BIT HUMBER // 8/ 1/ 2/

Table B:21 Status Array, Exp #21

BIT HUMBER // 8/ 1/ 2/ 3/ 4/ 5/ 6/ 7// 8/ 9/10/11/12/13/14/15//

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Table B:22 Status Array, Exp #22

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了,我们的人,我们们们的人,我们们们们的人,我们们们们们们们们们的,我们们们们的一个,我们们们们的一个,我们们们们们的一个,我们们们们们们们们们们们们们们们们们 Status Array, Exp #24 Table B:23

17. 美国美国人名英国英国英国英国英国英国英国英国英国英国英国英国英国英国英国英国	*	*	*	+	*	Z **		Ž Ž	# 	*	**	*	*	* * *	***	* * *	<u>丁庆时间,不是我将老爷爷爷爷爷爷爷爷爷爷爷爷爷爷爷爷爷爷爷爷爷爷爷爷爷爷爷爷爷爷爷爷爷爷爷爷</u>
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C*************	1	`	\	١,	\	1	1	`\	1	`\.	`.	\	٠,	\	1	1	//20
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BIT HUMBER // 8/ 1/ 2/ 3/ 4/ 5/ 6/ 7// 8/ 9/18/11/12/13/14/15//

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*,	٠.	. `\.	٠.	٠,	`\	1	1	•••	`.	*	1	٦,	*	1	1	*	1	1	٨.	•	`	`	`.	١.	٠.	15/#
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1	٠.,	٠,	٠.	٠.,	1	`	٧,	٧.	٦.	1	44.	٧,	`	٧,	٠.	`\	1	١.	٠.	1	`\	`	`	1	1	1
1		1	1	1		1	1	1	1		1	1	1	1	1		11		1	1	1	1	1	1	1	11
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****	-	-	+	++	#	*	#	#	#	**	*******	*****	*	*	******	******	******	#	*	*****	*******	******	********	**	*****	****
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#### APPENDIX C: DATA DISPLAY SUMMARY

This appendix contains a complete set of status, listing and describe outputs. It contains graphical output for experiments 4,5,6,12 and 13 only.

#### APPENDIX C DATA DISPLAYS

#### 1. Sample Status Outputs

The status outputs contain in a plain language format the status indicators for the experiments specified by the header. The date/time group in the extreme upper left hand corner indicates the time at which the operator made the request for the data. The date/time group in the heading is the start time of the two minute telemetry page requested. The header also contains the satellite (A or B) and the experiment number and title. The telemetry format (1-5) and the telemetry page number (0-31) are indicated just below and to the left of the header. All data in the output are the last available in the particular telemetry page requested. "Most recent" sensor data is in counts. Any idiosyncrasies of the status displays will be noted with that display in the following sections. Unless otherwise noted the number of telemetry pages per output is 1.

12 876/18:30:23

SULHAU 118 EYP STATUS FUR 701114/ 4:45: 7 EXPERIMENT 1: HIGH ENERGY X-RAY MONITOR

FURMAI: 1 PAGE: 2

ELECTRUNICS:	ON	RATEMETER: 1.26	VOLTS
HIGH VULTAGE:	ON		
HV SELECT:	1		
MOUF:	MNOM	MOST RECENT FPA	DATA
CALIBRATION:	OFF	CHANNEL 1:	27.
HV1 SEITING:	0111	CHANNEL 2:	35.
HV2 SETTING:	1711	CHANNEL 3:	89.
HV MUNITUR:	2.78 VOLIS	CHANNEL 4:	119.

Table Cl.1 - Sample status output for experiment l. HVx settings are given in terms of the binary switch positions.

12 876/18:36:53

SOLPAD 118 EXP STATUS FOR 761110/ 4:45: 7 EXPERTMENT 2: X-KAY PRUPURITUNAL COUNTER

FURMAT: 1 PAGE:

					FPA DATA	204	1309.	311.	1753.
	MOUF: NORM				HOST RECENT	FPA 11	FPA Q:	FPA G:	FPA 4: 1753.
SIDE B	Z C	v <sub>C</sub>	N	UFF	3.70 VOLTS	2.56 VOLTS	1100	1100	arie
4						VUL 15			
STUE	z o	CO	-	OFF	3.48	5.70	1001	1961	n010
	ELECTRUNICS:	HTGH VULTAGE:	HV SELECT:	CAL JORATE:	LV MUNITUR:	HV MUNITUR:	HV1 SETTING:	HV2 SEITING:	DATA XIMB:

HVx settings are given in terms of the binary switch positions. - Sample status output for experiment 2. The Table C1.2

12 070/19:31:23

SOLRAD 118 EXP STATUS FOR 7611107 4:45: 7 EXPERIMENT 3: MAGNESIUM XI, XII MONITUR

FURMAT: 1 PAGE: 2

FLECTHONICS:	ΠN	MOST RECENT	DATA
HIGH VOLTAGE:	ON	CONTINUUM:	117
HV SELECT:	1	MAG11:	146
HV1 SETTING:	1010	MAG12:	153
HV2 SETTING:	1010		
HV MONITOR:	3.40 VOLTS		
STAR PULSES/MIN. :	16		

Table C1.3 - Sample status output for experiment 3. The HVx settings are given in terms of the binary switch positions.

#### 12 870/18:31:59

SULRAU 118 EXP STATUS FOR 701110/ 4:45: 7 EXPERIMENTS 4,5,6,12,13: X=RAY PHOTOMETERS

#### FURMAT: 1 PAGE: 2

ELECTRUNICS:	UN	TEMP (DEG.C) MOST RECENT (	ATA
CALIBRATE:	OFF	X4A 53.27 X4 1	
A4 A/R SELECT:	В	X48 45.89 X5 22	
X4 RNGCHL: (AUTO	1) 1	X54 45.87 X6 49	
X5 A/R SELECT:	В	X58 45.20 X12 143	
X5 RNRCHG: (AUT)	2) 2	Xo 45.89 X13 153	
X5 SHUTTER: CUI	LRED	X12 43.99	
AS RNGCHG: (AUT)	)) 2	X13 45.67	
X12 RNGCHG: (AUTO	1) 1		
x13 RNGCHG: (AUTO	1) 1	RC REG MANA	

Table C1.4 - Sample status output for experiments 4,5,6, 12 and 13.

# 12 870/18:32:44

SOLRAD 118 EXP STATUS FOR ZELLIU/ 4:45: 7 EXPERIMENTS 7,8 - UV ION CHAMBERS (170-1050A, 1080-1350A)

FURNAT: 1 PAGE: 2

	TENP	(DEG.C)	MUST	RECENT DATA
ELECTRONICS: ON	XZA	X7A 41.71	X7X	1488
CAL IBRATE: OFF	X7b	43.04	x7 td	3978
XYA RNGCHL: (AUID) 3	XZC	45.20	X7C	X7C 2448
X78 RNGCHG: (AUIN) 2	×	A9.00	×	13
XZC RNGCHG: (AUTO) 2				
XB RNGCHG: (AHID) 1				
X84 SHUTTER: CONFIFED (UK)	KC RE	KC REG MANA		

Table Cl.5 - Sample status output for experiments 7 and 8.

121770/15:40:36

SOLPAD 114 EAP STATUS FOR 7512 9/ 1:32: 4
EXPERIMENT 9: UV SPECTRUMETER

FURMAT: 2 PAGE: 20

EXPERIMENT: CONTROL WORD: 1111111909001 ON SCAN HATE: FAST MUTUR COUNT: TUPUIL: HIGH FPA DATA: 24. HV SETTING: avide HY MONITOR: 2.62 VOLTS LV MONITOR: 5.08 VOLTS THE NEXT CONTROL WORD WILL TEMP: -99.99 DEG.C OCCUR IN PAGE 27

Table C1.6 - Sample status output for experiment 9. The HV setting is given as binary switch positions. The control word is output as a binary code. Currently this experiment yields valid data only when it is operating in the HIGH torque mode. In the slow scan mode, the number of telemetry pages per output is 7. In the fast scan mode, the number of telemetry pages per output is 1. All data (except the motor count) are taken from the page where the control word is found. If no control word is found, the data are taken from the page corresponding to the start time designated by the operator. In the slow scan mode the motor count is found six pages later than the page containing the control word.

121476/15:45: 1 SULRAD 118 EXP STATUS FOR 7612 7/ 9:59:29

FURMAT: 1 PARC: 12

EXPERTMENT	16	EXPERIMENT	11
THUMSON X-HAY PO	LAKIMETER	EXPERIMENT BRAGG X-KAY POL	ARTMETER
ELECTPUNICS:			
CALIBRATE:			ON
HIGH VULTAGE-A:			
HIGH VULTAGE-A:			
HVA SEITING:	0101		
HVB SETTING:	0101	SAMPLE PERIOU:	12.56 SEC
HVA MONTTOR:			
HVB MONTTON:	3.30 VOLTS		
		MOST RECENT	DATA
SAMPLE PERIOU:	5.52 SEC	SECTOR 1 FPA:	54.
		SECTOR 2 FPA:	37.
MOST RECENT	UATA	SECTUR 3 FPA:	56.
BKGD/ANTICUTH:	v	SECTOR 4 FPA:	. 99.
1A5 FPA:	1.	SECTUR 5 FPA:	42.
185 FP4:	1 41 .	SECTUR 6 FPA:	78.
245 FF4:	3.	SECTOR 7 FPA:	v) .
265 FP4:	v.	SECTUR A FPA:	125.
**************************************	TO SECOND		2 5747115++++++
EANTH GATE 7		EARTH ASPECT	
EARTH UELAY 4	0.9 07.6		CT OFF /UNLOCKED
STAR RATE 6	3HUT	ACS ANGLE SE	ON FINE
SCLAR GATE 9	Shull	ACS ANGLE SET	
SOLAR DELAY 5	0.0 UEG	SPIN PERIOD	
		ASPECT ANGLE	0.0 056

Table C1.7 - Sample status output for experiments 10 and 11. High voltage settings are given in terms of binary switch positions. The most recent data in experiment 10 is from sector 5.

12 575/18:33:59

SOLMAD 116 EXP STATUS FOR 761110/ 4:45: 7
EXPERIMENTS 14,23: SOLAR AND ANTISOLAR PROTONS
EXPERIMENT 17: UMNIDIHECTIONAL PROTONS
EXPERIMENT 22: SULAR FLARE ELECTRONS

FURMAT: 1 PAGE: 2

EXP	14,23	ÜN	EXP 17C TEMP	40.34 DEG.C
EXP	174	UN	EXP 17C HV MONITOR	2.40 VOLTS
EXP	170	UN	EXP 170 LV MONITOR	2.94 VOLTS
EXP	170	UN	EXP 22 TEMP	53.24 DEG.C
EXP	22	UN	EXP 22 HV MUNITUR	1.96 VOLTS
			EXP 22 LV MUNITOR	2.58 VULTS

************	******SECTOR STATUS*****
EARTH GATE 7 OPEN	EARTH ASPECT ON
EARTH DELAY 4 0.9 DEG	STELLAR ASPECT OFF / LUCKED
STAR GATE & SHUT	ACS
SOLAR GATE 9 SHUT	ACS ANGLE SENSON FINE
SOLAR DELAY 5 0.0 DEG	SPIN PERIOD 3.8428 SEC
	ASPECT ANGLE 0.0 DEG

Table C1.8 - Sample status output for experiments 14,17,22 and 23.

12 076/18:36:20

#### SOURAD 118 EXP STATUS FOR 7611107 4:45: 7 EXPERIMENT 15: SOLAR WIND

```
FURMAT: 1
            PAGE: 2
  ELECTRUNICS:
                         ON
  HIGH VULTAGE:
                         UN
                                        TEMC
                                                    42.28 DEG.C
  RATE:
                       SLOW
                                        TPMOU
                                                    51.04 DEG.C
  MODE:
                       NORM
                                        TLUG
                                                    54.32 DEG.C
  FSH-STAR PULSE
                     0.9521 SEC
                                        TPMC
                                                    53.20 DEG.C
  FSP-EARTH PILSE
                                        X-ASPECT
                     M. 9424 SEC
                                                     U.O DEG
  FSF-SOLAR PULSE
                     0.9302 SEC
                                       Y-ASPECT
                                                      0.0 DEG
                   *******SECTOR STATUS*****
                   EARTH ASPECT
                   STELLAR ASPECT OFF / LOCKED
                                              UN
                   ACS ANGLE SENSOR
                                            FINE
                   SPIN PERIOU
                                          3.8428 SEC
                   ASPECT ANGLE
                                            U. WA DEG
*******STAR PULSE*****
                                     ********EARTH PULSE******
EARTH GATE 7
                                     EARTH DELAY 1
                 UPEN
                                                       214.1 DEG
EARTH DELAY 4
                                    EARTH GATE 3
                 0.9 DEG
                                                        SHUT
STAR GATE &
                 SHUT
                                     EARTH GATE 4
                                                        SHUT
SOLAR GATE 9
                SHUT
                                     SULAR GATE 5
                                                        OPEN
SOLAR DELAY 5
                 A.A DEG
                                     SOLAR DELAY 2
                                                        M.9 DEG
                                     STAR GATE 5
                                                        SHUT
                                     STAR DELAY 3
                                                         P. A DEG
                                     VIS EARTH GATE 1
                                                        SHUT
                                     IR EARTH GATE 2
                                                        SHUT
```

Table Cl.9 - Sample status output for experiment 15.

This experiment has a fast and a slow sampling rate.

The fast rate produces 10 times as much data per telemetry page as the slow rate and it is used only in format 3. The experiment also has a normal mode and a flux mode. Data channels are partitioned differently in the flux mode than in the normal mode. The X- and Y- aspect data currently lack the proper algorithm and are set to 0.

12 876/18:30:53

```
SULRAD 118 EXP STATUS FOR 751110/ 4:45: 7
              EXPERIMENT IN: STELLAR/AHRORAL X-KAYS
           PAGE: 2
FURMAT: 1
       ELECTRONICS
                            00
                                          ACCUM 1
                                                       270
       HIGH VOLTAGE-A
                            ON
                                          ACCUM 2
                                                       307
       TEMP 1
                         33.50 UEG.C
                                          ACCUM 3
                                                       303
       TEMP 2
                         34.52 UEG.C
                                          ACCUM 4
                                                       324
       SLEW
                                          ACCUM 5
                                                       337
                        30977.
                                          ACCUM 6
                                                       447
       COINC DATA
                       1.5826 SEC
                                          ACCUM 7
                                                       327
       SAMPLE PERIOU
                                                       322
                                          ACCUM &
                                                       694
                                          ACCUM 9
                   ******* SECTOR STATUS ******
                                            ON
                   EARTH ASPELT
                   STELLAH ASPECT OFF /
                                          LOCKED
                   ACS
                                             ON
                                            FINE
                   ACS ANGLE SENSUR
                                          3.8429 SEC
                   SPIN PERIOU
                                          W.WM DEG
                   ASPECT ANGLE
                                     ******* EARTH PULSF *****
 ******** STAN PULSE*****
 CARTH GATE 7
                UPEN
                                    EARTH DELAY 1
                                                     214.1 DEG
                                                       SHUT
                 0.9 DEG
                                    EARTH GATE 3
 EARTH UELAY 4
                                                        SHUT
 STAR GATE 8
                 SHUT
                                    EARTH GATE 4
                                                       OPEN
 SOLAR GATE 9
                                    SOLAR GATE 5
                 SHUT
                                                        0.9 066
                                     SOLAR DELAY 2
 SOLAR DELAY 5
                 O. O DEG
                                     STAR GATE 6
                                                        SHUT
                                     STAR UFLAY 3
                                                        A.A DEG
                                                        SHUT
                                    VIS EARTH GATE 1
                                     IR EARTH GATE 2
                                                        SHUT
```

Table C1.10 - Sample status output for experiment 16.

121070/16:30:46

SOLHAU 118 EXP STATUS FOR 761216/ 7:44:51
EXPERIMENTS 18,19: GEUCURONAL, EXTRATERRESTRIAL EUV

#### FURMAT: 1 PAGE: 5

ELECTRUNICS:	OFF		
HIGH VULTAGE:	UFF	WHEEL PUSITION: 1.8	8 VOLTS
TEMP 1:	34.04 DEG.C	HV1 SET: No!	1
TEMP 2:	40.61 DEG.C	HV2 SET: POO	(0)
HV SELECT:	1	EXP 18 FILTER:	
HV MUNITOR:	0.70 VOLTS	EXP 19 FILTER:	
******STAR PU	LSE++++++	******SECTOR STATE	S+*****
EARTH GATE 7	MPEN	EARTH ASPECT	UN
EARTH DELAY 4	W.9 UEG	STELLAR ASPECT OFF	/UNLUCKEU
STAR GATE &	SHIIT	ACS	ON
SOLAR GATE 9	SHUT	ACS ANGLE SENSOR	FINE
SPLAR UELAY 5	W. M DEG	SPIN PERTUD 3	.7427 SEC
		ASPECT ANGLE	U.U DEG

NU DATA AVAILABLE

Table Cl.11 - Sample status output for experiments 18 and 19.

These experiments output data from sensors in telemetry format 2 only. If another format is in effect, the status output shows a "NO DATA AVAILABLE" note. High voltage settings are in terms of the binary switch positions. The filter indicators do not yet have a designated output.

12 070/14:34:18

SOLRAD 11R FXP STATUS FOR 761110/ 4145: 7 EXPERTMENT 20: PROTON-ALPHA TELESCOPE

FURMAL: 1 PAGE: 2

FLFCTHUNICS:	ON	286	* FF	4.30		
SV KET:		150	REF.	3.92	VOLTS	
2.5V HFF:		100	REF:	2.04		
. XFF .		150	RFF:	1.00		
FIAS:						
FLEL TENP:						
DET TEMP:	4.76 VOL.TS					

S 4	2 0	Z I
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Table C1.12 - - Sample status output for experiment 20.

12 876/13:50:14

SCLEAD 118 EXP STATUS FOR 761110/ 3:29: 7 EXPERIMENT 21: LUN ENERGY PROTUM SPECTROMETER

FURMAT: 1 PAGE: 28

ELECTRUNICS: ON

ANALDG	MONITOR	STATUS:	VOLTS
	1		3.76
	6		3.02
	5		0.02
	4		0.00
	3		2.18
	2		0.54
	1		5.10
	1		5.10

ANALOG MONITOR O = 0.00 FOR THE PREVIOUS 64 MIN ANALOG MONITUR 4 = 0.00 FOR THE PREVIOUS 64 MIN

Table C1.13 - Sample status output for experiment 21.

Since one cycle through eight analog monitors is required, the number of telemetry pages per record is 8. The program searches backward through four such records to check for times when analog monitors 0 or 4 are not zero.

12.876/18:40:30

SOLRAD 118 EXP STATUS FOR 761110/ 4:45: 7
EXPERIMENT 24: BACKGROUND X=RAY SPECTROMETER

FURMAT: 1 PAGE: 2

ELECTRONICS: OFF RATEMETER: 2.79 VOLTS UFF HV STATUS: UFF CAL TIMER: TEMP 1: -156.67 DEG.C MEM ID: COVERED TEMP 2: 41.14 DEG.C SHUTTER: CALIBRATE: OFF 0.42 VOLTS HY MONITOR:

Table Cl. 14 - Sample status output for experiment 24.

This experiment is not working but the output is included for the sake of completeness.

122376/19: 4: 9

SULMAU 116 EXP STATUS FOR 76 927/20: 1:20 EXPLHIMENT 25: GAMMA RAY BURST DETECTION

#### FURMAT: 1 PARE: 25

DETECTURS:	ON		
LOGIC:	UM	THRESHOLD SET:	1111
HVA STATUS:	ON	SOH A:	2953.
HVB STATUS:	01.	50h b:	2937.
HVA SET:	1001	SOH SEL:	1-4
nVB SET:	1101	LATA SEL:	1-4
EVENT 10:	0	AMT SEG:	12

#### NU DATA AVAILABLE

Table Cl.15 - Sample status output for experiment 25. HVx and threshold settings are in terms of binary switch positions.

#### Sample Data Listings

The data listings contain a partial output in counts of the primary sensors for the experiment specified by the header. The data selected for display is that corresponding to the highest periodic sampling rate and always comprises at least 75% of the available data. The date/time group in the extreme upper left hand corner indicates the time at which the operator requested the particular data segment. The date/time group in the heading states the start and end times of the data displayed in the output. The header also indicates the satellite (A or B) and the experiment number and title. The elemetry format (1-5) and the telemetry page number (0-31) are indicated just below and to the left of the header. The time is indicated in the left most column with a resolution At, where At is the telemetry repetition interval for that sample. The maximum discrepancey between time tag and time of the data is  $\Delta t/2$ . Any idiosyncrasies in the data listings will be noted with that display in the appendix. Unless otherwise noted, the number of telemetry pages per output is 1.

0 UFL 76/18:59:30

SOLRAD 118 DATA REPORT FUR ZO11107 4:40: 7 TO 107 4:46:59 EXPERIMENT 1: HIGH ENERGY X-RAY MUNITUR

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4 RATEMETER	~	~	~	~	~	20	O.	~	~	~	~	O.	~	5 63	~	0
CHANNEL	1.210+2	1.460+2	1.180+2	1.310+2	1.570+2	1.190+2	1.380+2	1.224+2	1.496+2	1.410+2	1.34042	1.150+2	1.090+2	1.250+2	1.356+2	1.190+2
CHANNEL 2 CHANNEL 3 CHANNEL 4	0.8MM+1	7.100+1	7.390+1	9.500+1	9.700+1	1+224.0	7.800+1	6.200+1	8.390+1	0.700+1	0.040+1	0.400+1	0.000+1	1+006.0	D. DAM+1	8.900+1
CHANNEL 2	3.300+1	2.500.+1	4.130+1	2.204+1	1+BN2.5	3.144.+1	3.796+1	3.000+1	2.00v+1	3.500+1	K.4ME+1	2.904+1	4.296+11	2.500+1	1+355.0	3.500+1
CHANNEL 1	3.200+1	2.500+1	2.3MM+1	2.500+1	Z. 6 M C+1	1.900+1	2.290+1	1.000+1	2.200+1	2.400.41	2.5MU+1	7.000+1	2.000+1	2.000+1	2.590+1	2.7110+1
CAL																
DATEITME	7011101 445 7	701116/ 44514	7011101 44522	7011101 44529	7011107 44537	7011101 44544	7011111/ 44552	7011107 44559	011111/ 446 7	7011101 44514	7011101 44622	011111/ 44520	011111/ 44637	701116/ 44644	01110/ 44652	701114/ 44650

column headings will change, depending on the experiment mode 1, 3 and 4 are omitted while channel #2 is output four times (i.e., normal or optional). In the optional mode, channels Sample data listing for experiment 1. Data more frequently than in the normal mode. Table C2.1 -

8 UEC 76/18:31: 7

761114/ 44637

701110/ 44644

701110/ 44652

701110/ 44650

SULRAU 115 DATA REPORT FOR 7611107 4:45: 7 TO 107 4:46:59 EXPERIMENT 2: X-RAY PROPOPTIONAL COUNTER

FURMAI: 1	PAGE: 2		NORMA	L MODE
DATE/TIME	CAL CHANNEL 1	CHANNEL 2	CHANNEL 3	CHANNEL 4
701110/ 445 7	2.080+2	1.297+3	3.230+2	1.777+3
701110/ 44514	1.990+2	1.201+3	3.010+2	1.725+3
701110/ 44522	2.206+2	1.201+3	3.290+2	1.677+3
761110/ 44529	2.170+2	1.229+3	3.050+2	1.753+3
701110/ 44537	1.890+2	1.201+3	3.010+2	1.709+3
761110/ 44544	2.080+2	1.305+3	3.130+2	1.725+3
701110/ 44502	2.070+2	1.253+3	2.630+2	1.749+3
701110/ 44509	2.120+2	1.317+3	3.070+2	1.785+3
701110/ 445 7	2.010+2	1.273+3	3.150+2	1.601+3
7011101 44614	1.980+2	1.285+3	3.410+2	1.841+3
701111/ 44622	2.110+2	1.273+3	2.910+2	1.641+3
701110/ 44529	1.980+2	1,373+3	2.810+2	1.709+3

1.2/3+3

1.313+3

1.253+3

1.309+3

3.090+2

3.230+2

3.110+2

3.110+2

1.673+3

1.701+3

1.753+3

Table C2.2 - Sample data listing for experiment 2.

The data column headings will change depending on the mode in which the experiment is operating (normal, optional 1, or optional 2). In the optional 1 mode, channels 3 and 4 are eliminated and channels 1 and 2 are sampled twice as fast as in the normal mode. In the optional 2 mode, channel 1 is output in place of channels 2, 3, and 4.

1.8101+2

1.820+2

1.850+2

2.010+2

d DFC 76/18:31:37

SOLPAD 118 DATA FOR ZG1110/ 4145; Z TO 10/ 4146:59 EXPERIMENT 3: MAGNESIUN XI, XII MONITOR

FURNAT: 1 PAGE: 2

111/CFL	9.53-1	2.87-1
X11/X1	1.13+0	1.24+4
MG12FL	7,36+1	3.84+1
MG11FL	0,51+1	3.40+1
STP	10	10
MGXII	149	153
HGXI	141	140
LUNI	a	11/
	^	1
INE	445	446
DATEZI	76111101	701110/ 446 7 11/

Table C2.3 - Sample data listing for experiment 3. Columns star pulses/min and columns 5-6 are photon flux in units of 1-3 of the data are in counts. Column 4 is the number of photons cm<sup>-2</sup>sec<sup>-1</sup>.

8 DFC 76/18:32:20

SOLPAD 118 DATA FOR 761110/ 4:45: 7 IN 10/ 4:40:59 EXPERIMENTS 4,5,0,12,13: X-RAY PHOTOMETERS

FURNAT: 1 PAGE: 2

۷ :	2	2 A				42				N A				24			
vc .	4 2 2 4	4.98+1				4.90+1				4.90+1				4.90+1			
4 :	E Y	1 4		1 A		1 4		1 A		1 A		1 4		1 4		1 A	
2 :	A 2	1.49+2		1.5047		1.51+2		1.58+2		1.51+2		1.52+2		1.53+2		1.53+2	
4 :	Z Z		82 A		H2A		BZA		BZA		H2A		H2A		82A		R2 A
uc.	A O O O O O O O O O O O O O O O O O O O		2.20+1 B2A		2.20+1 B2A		2.20+1		2.2M+1 B24		2.20+1		2.20+1		2.20+1		2.20+1 R24
4	I Y	BIA	RIA	RIA	HIA	H 1 A	BIA	HIA	BIA	H 1 A	HIA	H 1 A	H 1 A	H 1 A	H 1 A	H 1 A	H 1 A
4	48-1	1.00+0	0.00+0	D+00.6	1.00+6	1.00+0	1.00+0	3.00+0	1.00+0	1.00+0	1.00+4	1.00+10	1.00+0	1.00+0	1.00+0	1.5541	1.00+0
< :	Σ	1 4	1 4	1 A	1 A	1 A	1 4	1 4	1 A	1 4	1 4	1 A	1 4	1 4	1 4	1 4	1 4
67	CAL 6.3-3A	1.27+2	1.92+2	1.53+2	1.08+2	1.93+2	1.16+0	1.92+2	1.4012	1.35+2	1.56+2	1.25+2	1.31+2	2.10+2	2.07+2	1.43+2	1.43+2
	TIME CAL	10/ 445 7	16/ 44514	101 44522	10/ 44529	19/ 44537	101 44544	101 44532	16/ 44559	101 446 7	10/ 44514	101 44622	101 44629	10/ 44637	101 44644	16/ 44/52	141 44009

Table C2.4 - Sample data listing for experiments 4, 5, 6, 12, and 13.

The experiment number and associated wavelength range in angstroms are indicated in the column headings. The calibration is indicated by "on" or a blank (off). The selected detector for the experiments which have two detectors appear after the data in the column marked "A". The detector range is indicated under "R" and the automatic (A) or manual (M) indication is contained in the columns marked "A".

6 UFC 76/18:53: 2

SOLRAD 118 DATA REPORT FUR 7611107 4:45: 7 TO 107 4:46:59 EXPERINENTS 7,8: UV ION CHAMBERS

FURMAI: 1 PAGE: 2

A E	B 1 A	B 1 A	H 1 A	R 1 A	B 1 A	H 1 A	H 1 A	R 1 A
1680-1350	1.300+1	1.300+1	1.390+1	1.300+1	1.300+1	1.300+1	1.300+1	1,509+1
<b>∢</b> Σ α	4 4		4 4				aa	
75 725-1050	2,456+3	2 405+3	2,408+3	2.475+3	2,476+3	2.469+3	2,404+3	2,425+3
۷ <u>۶</u>	4 4	N	000	1 7 7			AA	44
76 450-450	3.480+3	2 4 5 6 7 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	5.937+3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3,931+3	5.43443	5.950+3	3.573+3
۲ ع ۵	4 4	4 4	4 4	44	4 4	4 4	4 5	
170-509	1.512+3	1.528+3	1.500+3	1.50043	1.490+3	1.480+3	1.490+3	1.468+3
FXP # DATE/ITME CAL	7011107 445 7							

Table C2.5 - Sample data listing for experiments 7 and 8.

range in angstroms for the designated experiment. Immediately to the right of the data are the detector range (column marked R) and the automatic (A)/manual (M) mode indicators. Experiment #8 contains two detectors (A and B) and the selected detector is indicated to the left of the range. The calibration is either "on" or blank (off). The experiment number is indicated as the first horizontal row. Beneath that is the wavelength

7/24

1/ UFL /n/10:41:18

SOLRAD 114 DATA REPORT FUR 7012 97 1:32: 4 TU 97 1:46: 4 EXPERIMENT 9: UV SPECTRONETER

FAST SCAN

FURRIAL: 2 PAGE: 20

FLUX												
COUNTSISEC	5.760+ 1	5.333+ 1	5,973+ 1	5.124+ 1	3.627+ 1	3.62/+ 1	5.333+ 1	5,333+ 1	5,533+ 1	5.126+ 1	5.120+ 1	5,120+ 1
STEP WAVELENGTHS COUNTS/SEC	1540-1525	1525-1550	1550-1575	1575-1000	1600-1025	1625-1650	1650-1675	1675-1700	1700-1725	1725-175W	1750-1775	17/5-1800
STEP	14	10	10	11	18	15	30	21	200	50	24	52
FLUX												
CulleTS/SEC	5.126+ 1	5,120+ 1	5.973+ 1	5.547+ 1	5.120+ 1	5,120+ 1	5.120+ 1	5.12, + 1	5,120+1	0.120+ 1	5.750+ 1	5.764 1
STEP WAVELENGTHS CUMPTS/SEC	1244-1225	1225-1254	1950-1275	12/5-1300	1360-1325	1325-1356	1300-1373	13/5-1490	1400-1425	1425-1456	1450-1475	1475-1500
STEP	O4	2	4	D	٥	,	٤	5,	9.	11	12	13

2.556+ 2 ON 5.120+ 1 EXP & FLUX FUR SULKAU 11A TS STEPPING PUTUR PULSE CULINT; FLY-BACK DATA: 5.120+ 1 UARK CUUNTS: 5.124+ 1

Table C2.6 - Sample data listing for experiment 9. (Fast Scan)

though the experiment is in the fast scan mode. If the control This experiment yields valid data only when the motor is in the HIGH torque mode. If the control word is not found in seven pages, data is output for the seventh page back from the word is found and the slow scan mode is detected, I complete output takes seven telemetry pages. Experiment 8 flux is obtained at a time corresponding to that of the 1200 Å data in time requested by the operator and the output is treated as experiment #9. This is to provide a comparison between the two detectors.

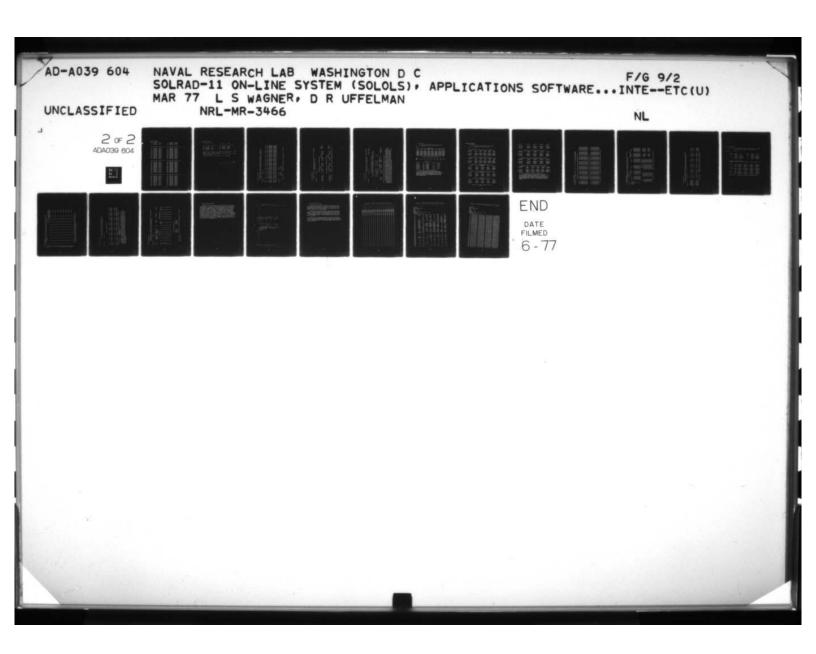
23 UFC 76/19:53:15

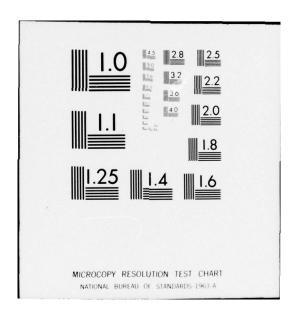
SOLPAD 118 DATA REPORT FOR 701220/22:28:48 TO 20/22:42:48 EXPERIMENT 9: UV SPECTROMETER

FURMAT: 1 PAGE: 24

SLOW SCAN

STEP	WAVELENGTHS	CUUNTS/SEC	FLUx	STEP	WAVELENGTHS	COUNTS/SEC	FLUX
2	1178-1181	0.013+ 1		1.7	1225-1228	1.771+ 2	
3	1181-1184	R +NPW.N		18	1228-1231	1,685+ 2	
4	1184=1187	W. WAW + A		19	1231-1234	2.219+ 2	
5	1187-1190	6.00V + 0		20	1234-1237	2.799+ 2	
0	1197-1193	2.76U+ 1		21	1237-1240	2.469+ 2	
7	1193-1195			55			
		4.997+ 1		-	1244-1243	2.795+ 2	
ð	1196-1200	7.680+ 1		23	1243-1246	1.525+ 3	
9	1200-1203	0.187+ 1		24	1246-1250	4.608+ 2	
16	1263-1200	3.221+ 2		25	1257-1253	2.246+ 3	
1 1	1246-1299	2.197+ 2		26	1253-1256	8.547+ 4	
12	1209-1212	1.467+ 1		27	1256-1259	1.312+ 3	
13	1212-1215	0.533+ 1		28	1259-1262	4.267+ 2	
1 4	1215-1218	8.533+ 1		29	1262-1265	3.499+ 2	
15	1218-1221	9.64N+ 1		30	1265-1266	2.731+ 2	
16	1221-1225	1.301+ 2		31	1268=1271	2.389+ 2	
STEP	WAVELENGTHS	CLUINTS/SEC	FLIIX	STEP	WAVELENGTHS	CUUNTS/SEC	FLUX
32	1271-1275	2.469+ 2		48	1321-1325	2.539+ 2	
33	1275-1278	2.197+ 2		49	1325-1328	1.579+ 2	
34		4.309+ 2		5 vi		2.859+ 2	
	12/8-1281				1328-1331		
35	1281-1284	2.155+ 2		51	1331-1334	2.517+ 2	
30	1284-1287	6. WEN+ 0		52	1334-1337	2.197+ 2	
37	1207-1290	n + unu . a		53	1337-1346	3.285+ 2	
38	1290-1203	6 + 3 my . a		54	1340-1343	3.648+ 2	
39	1293-1290	2.384+ 2		55	1343-1340	2.758+ 3	
44.	1296-1390	2.389+ 2		56	1346-1350	4.354+ 3	
41	1300-1003	4.459+ 2		57	1350-1353	1.542+ 3	
42	1343-1366	3.2844 2		5.6	1353-1356	7.232+ 2	
43	1306-1309	0.024+ 2		59	1356-1359		
44	1300-1315	1.064+ 2		60	1359-1362	4.928+ 2	
45	1312=1315	1.635+ 2		51	1302-1365	4.992+ 2	
40	1315-1310	2.987+ 2		62	1305-1368	3.840+ 2	
47	1318-1021	3.051+ 2		63	1368-1371	3.712+ 2	
STEP	WAVELENGTHS	CUUNTS/SEC	FLUX	STEP	WAVELENGTHS	COUNTS/SEC	FLIIX
84	1371-1375	0.421+ 2		80	1421-1425	0. nau+ a	
65	13/5-1378	4.257+ 2		81	1425=1428	0.000+ N	
60	1378-1381	1.290+ 4		82	1428-1431	0.000 a	
67	1301=1384	8-485+ 2		83	1431-1434	N + NON - N	
50	1384=138/	4.410+ 2		84	1434=1437	6.043+ 2	
69	1387=1390	6.720+ 2		85	1437-1440	2.585+ 3	
7 v	1390-1393	7.787+ 2		25	1440-1443	2.340+ 3	
71	1393-1390	V - VION + 3		8/	1443-1440	1.194+ 3	
72		0 . WIN + 1		58	1445=1450	3.120+ 1	
-	1396-1400	•		89	1450=1453	1.278+ 3	
73	1400-1403	0 + NON - 0		Q.	1453=1455	1.270+ 3	
75				91	1455=1456	1.050+ 3	
17	1405-1404	D . (1996 € 18		41	1/175=1479	1 1 1 1 1 1	





```
Slow Scan (Continued)
    7.0
                     4.000 H
         1469-1412
                                           92
                                               1409-1462
                                                             1.193+ 3
    77
         1412-1415
                     n.nan+ a
                                           93
                                                 1402-1465
                                                             1.069+ 3
    70
         1415-1410
                    0.6AV+ 2
                                           94
                                                 1405-1466
                                                             1.039+ 3
    74
         1418-1421
                     N . 49 10 . 11
                                           95
                                                 1468-1471
                                                             1.425+ 3
  STEP WAVELENGTHS CUINTS/SEC FLUX
                                          STEP WAVELENGTHS CUUNTS/SEC FLUX
                     1.137+ 3
   90
         1471-1473
                                          112
                                                 1521-1525
                                                             1.751+ 3
   97
         1475-1478
                    1.235+ 3
                                                             2.298+ 3
                                          113
                                                 1525-1528
   98
         1478-1481
                     1.513+ 3
                                                 1528-1531
                                                             2.067+ 3
                                          114
   99
        1481-1484
                     1.359+ 3
                                          115
                                                 1531-1534
                                                             1.777+ 3
  100
         1404-1487
                                                 1534-1537
                                                             1.948+
                     1.239+ 3
                                          110
                     1.372+ 3
  171
                                                             1.854+
         1407-1490
                                          117
                                                 1537-1540
  192
                     1.355+ 3
                                                 1547-1543
        1490-1465
                                          118
                                                             2.033+ 3
  103
         1443-1490
                     1.303+ 3
                                          119
                                                 1543-1546
                                                             2.084+ 3
  104
                     1.367+ 3
         1496-1500
                                          120
                                                 1546-1550
                                                             2.225+ 3
                    1.460+ 3
  175
         1500-1505
                                                 1559-1553
                                                             2.110+ 3
                                          121
         1503-1500
  100
                     1.487 - 3
                                          122
                                                 1553-1556
                                                             2.271+
  147
         1506-1509
                     1.599+ 3
                                          125
                                                 1556-1559
                                                             2.070+
  100
         1509-1512
                     1.011+ 3
                                          124
                                                 1559-1562
                                                             2.118+
                     2.033+ 1
  109
         1512-1515
                                          125
                                                 1562-1565
                                                             2.204+
                     2.639+ 3
                                                             3.194+ 3
  110
         1515-1518
                                          120
                                                 1565-1568
         1518-1521
                                          127
  111
                     2.127+ 3
                                                 1568-1571
                                                             2.298+ 3
  STEP WAVELENGTHS COUNTS/SEL FLIIX
                                          STEP WAVELENGTHS COUNTS/SEC FLUX
  128
        1571-1575
                     3.134+ 3
                                          144
                                                 1521-1625
                                                             2.827+ 3
        1575-1578
                     2.04/+ 1
                                          145
  124
                                                 1625-1628
                                                             2.878+ 3
         1579-1581
                     2.485+ 3
  130
                                          140
                                                 1628-1631
                                                             2.650+
  131
                     2.878+ 3
                                                             2.754+
         1501-1584
                                          147
                                                 1631-1634
  132
         1504-1587
                     2.460+ 3
                                                 1634-1637
                                          148
                                                             4.821+
  133
         1507-1590
                     7.420+ 3
                                          149
                                                 1637-1040
                                                             2.827+
                     2.69n+ 3
  134
         1599-1593
                                          150
                                                 1640-1643
                                                             2.579+
                     8.090+ A
         1593-1500
  135
                                                 1543-1646
                                          151
                                                             3.074+
         1596-10PM
                     * . UPU+ 3
                                                             3.381+
  135
                                          152
                                                 1646-1650
                     W. WAS+ 4
  137
         1600-1003
                                          153
                                                 1650-1653
                                                             2.758+
                     6.640+ a
         1663-1600
  138
                                          154
                                                             3.108+
                                                 1653-1656
                     2.943+ 3
                                          155
  139
         1646-1009
                                                 1656-1659
                                                             3.415+
         1609-1612
  1 4v.
                     3.444 3
                                          150
                                                 1559-1662
                                                             3.637+
                                          157
  141
         1512-1015
                     3.384+ 3
                                                 1562-1665
                                                             3.424+
  142
         1515-1010
                     2.468+ 3
                                          158
                                                 1605-1668
                                                             3.842+
  145
         1518-1021
                     2.562+ 3
                                          159
                                                 1868-1071
                                                             3.607+ 3
  STEP WAVELENGTHS COUNTS/SEC FLUX
                                          STEP WAVELENGTHS COUNTS/SEC FLUX
  160
         1471-1675
                     4.764+ 3
                                          176
                                                 1721-1725
  161
         1575-1070
                                                 1725-1728
                     4.013+ 3
                                          177
                                                             7.135+ 3
        1678-1081
                     3.765+ 3
                                                             6.965+ 3
  152
                                          175
                                                 1728-1731
                     4.289+ 3
  163
         1681-1584
                                                             0.000+ 0
                                          179
                                                 1731-1734
  164
         1684-1687
                     0.000 A
                                          180
                                                 1734-1737
                                                             U. 200+
  165
         1667-1594
                     W.WAN+ 4
                                          1 4 1
                                                 1737-1740
                                                             0.400+ P
  160
         1649-1093
                     K + NED. 0
                                          182
                                                 1749-1743
                                                             4.000+
                     0.0000
  167
                                          183
                                                 1743-1746
         1693-1090
                                                             0.070+
                     4.0000
  160
         1696-1/00
                                          184
                                                 1746-1750
                                                             0.000+ a
         1760-1703
  169
                                          185
                                                 1759-1753
                     5.310+ 3
                                                             0.000+ A
  170
         1703-1/20
                                          186
                                                 1753-1756
                     4.849+ 3
                                                             W. W70+ 7
                                                             0.000+
  171
         1706-1709
                     4.734+ 1
                                          181
                                                 1755-1759
                                          188
  172
         1749-1712
                                                 1759-1762
                     4.969+ 3
                                                             . . . . . .
                     4.095+ 3
                                                             U. 400+ 0
  173
         1712-1715
                                          199
                                                 1762-1765
         1715-1710
                                          194
                                                 1755-1768
                     7 . . . . . . . . .
                                                             W. MON+ 7
```

#### Slow Scan (Continued)

175	1718-1721	0.061+ 3		191	1708-1771	n.400+ a	
STEF	WAVELENGTHS	CUI'NTS/SEL	FLIIA	STEP	HAVELENGTHS	COUNTS/SFC	FLIIX
192	17/1-1775	6.200 + O		197	1787-179v	N + KNY . N	
193	17/5-1770	F + 41100 4		196	1790-1793	4.000+ a	
194	1778-1781	K . WAN + 4		103	1743-1790	0.000+ 9	
195	1701-1754	8.496+ 9		204	1796-1690	0.070+ 0	
196	1704-1787	v wave a					

FLY-BALK DATA: 0.000+ 0 0.000+

EXP 8 FLUX FOR SULMAU 118 15 V. 000+ 0 0N 20 AT 22:40:46

BEST AVAILABLE COPY

14 UFC /6/10:43:23

SOLPAD 118 DATA REPORT FUR 7010 7/ 9:59:29 TO 7/101 1:21 EXPERTMENTS 10,11: THUMPSON/PRAGG X-RAY POLARIMETERS

FURNAT: 1 PAISF: 12

3.7404+1 5.6404+1 9.9404+1 4.2404+1 7.8404+1 0.8404-0 1.2504-2 1.360+1 B. B. B. B. + J. 8.000+B 1.900+1 1.100+1 1.709+1 5.900+0 1.000+1 1.700+1 1.400+1 1.600+1 0.000+0 0.000+0 0.000+0 0.000+0 0.000+0 SECT A. AUA+U P. BUB+B SECT 7 7.960+0 S. 900+1 5.00049 6.00040 7.00040 1.00040 4.00040 3.00040 2.00049 2.00049 1.00040 1.00041 1.70041 1.70041 1.40041 1.900+1 5.888+8 6. MUN+0 4. NUN+N SECT 6 SECT 5 3.000+1 מ. מעמ+מ מ. מעמ+ף מ. מנומ+מ ס. מעמ+מ SECT A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 2.000+1 SECT 3 2.000+9 3.900+1 4.30041 8.90A+4 1.108+2 SFLT 2 4.000+0 SFLT 1 4.40040 5-40.9+1 S+895. B 0+61410. b 1.360+1 1+600 2.78A+1 SHUI DATA 10A2 184 DA1 1 KHZ INNI 1042 INHI

DETECTOR COINC BKGN

0-000+0 0.00000 0-000+0 Sample Data listing for experiments 10 and 11. Table C2.7

8 UEC 76/18:34:22

# SOLRAD 11H DATA REPORT FOR 7611107 41451 7 TO 10/ 4146159 EXPERIMENTS 14 & 23

FURMAT: 1 PAGE: 2

# EXPERIMENT 14: SULAR PROTONS

	PROTONS	SNO	ALPHAS	HAS	HFAVY
NATE/11ME	2 MEV	14 MEV	4.5 MEV	7.5 MEV	NUCLEI
7011101 445 7	1.190+1	1.140+1 7.600+1	0+000°0	0-040 0 0+000+0	8

# EXPENTATION 25: ANTI-SOLAR PROTONS

HEAVY	NUCLET
A A S	7.5 MEV
ALPHAS	4.5 MEV 7.5 MEV N.WON+9
SNI	10 MEV 8.300+1
PROTONS	0.000+0 8.300+1
	7011107 445 7

Sample data listing for experiments 14 and 23. 1 Table C2.8

23 UEC /6/19: 7:50

SOLRAD 118 DATA KFPUNT FUR 76 927/20; 1:20 TO 27/20; 3:12 FXPERIMENT 15; SULAR WIND

FURMAT: 1 PAGE: 25

NORMAL SAMPLE

DERIVED PLASMA PAKAMFIEKS

TEMP DENSITY THETA PHI ALPHA/PROTUN
(UFG K) (N/CC) (DEG)

-7.3/149 6.7

Table C2.9 - Sample data listing for experiment 15.

(KH/3EL) 7891.

flux samples, seven ion flux samples and six samples each from the three 120° sectors of the collector plate. The fast sampling the data channels are partitioned differently with seven electron mode produces ten outputs per telemetry page and the sample number will increment appropriately. The derived plasma parameters require algebtaic contants that have not yet been defined The data are output in octal counts. In the flux mode, for theta, phi and the alpha/proton ration.

#### A DEC 70/18:37:14

PAGE #

SOURAD 118 DATA REPORT FUR 7611107 4:31: 7 TU 107 4:46:59 EXPERIMENT 16: STELLAR AND AURURAL X-RAYS

FORMAT: 1 PA	GF.	: :	2
--------------	-----	-----	---

1.58

1.58

			STELLAR	DATA			
SECTURS	SECTORS	SECTURS	SECTORS	SECTORS	SECTORS	SECTURS	SECTORS
1-8	9-16	17-24	25-32	35-40	41-48	49-56	57-64
2.700+2	3.970+2	3.630+2	3.200+2	3.374+2	4.470+2	3.270+2	3.220+2
2.884+2	3.100+2	3.176+2	2.770+2	2.080-2	4.690+2	3.760+2	3.140+2
2.850+2	2.977+2	3.300+2	2.849+2	4.130+2	3.939+2	3.100+2	3.049+2
3.000+2	2.710+2	2.970+2	3.027+2	3.698+2	3.550+2	2.980+2	2.879+2
2.990+2	3.050+2	2.790+2	2.917+2	3.344+2	3.250+2	3.180+2	2.980+2
2.980+2	2.940+2	2.960+2	2.974+2	3.200+2	3.550+2	3.110+2	3.240+2
2.970+2	2.868+2	2.860+2	3.000+2	3.070+2	3.969+2	3.066+2	3.330+2
3.080+2	2.050+2	2.724+2	3.030+2	2.880+2	3.427+2	2.990+2	2.740+2

30

1.58

1,58

1.58

#### AURURAL DATA

DATE/TIME	AST	AUROHAL CPS	BEGNU CPS	COINC CPS
19/ 445 7	3.15	6.940+2		3.098+4
19/ 443 7	3.16	6.770+2	4.199+4	
19/ 441 7	3.16	7.340+2		3.059+4
19/ 439 7	3.16	6.690+2	4.257+4	
10/ 437 7	3.15	7.160+2		3.785+4
10/ 435 7	3.16	0.090+2	4.211+4	
10/ 433 7	3.15	6.930+2		3.091+4
10/ 431 7	3.16	7.250+2	4-105+4	

Table C2.10 - Sample data listing for experiment 16.

In this output, the operator has the option to output stellar data, auroral data or both. This example shows both. The first row of stellar data corresponds to the first page number, slew and SST indicated under "Stellar Sampling Time for each Slew". The second row of data corresponds to the second page number indicated and so on. One complete data record is made up of 8 telemetry pages.

#### Table C2.10 (Continued)

8 UFC 75/18134155

SOLPAD 118 DATA REPORT FOR 761110/ 4:39: 7 TO 10/ 4:46:59 EXPERIMENT 17: OMNIDIRECTIONAL PROTONS

FURMAT: 1 PAGE: 2

		KOTUN PARTICI			•
CHANNEL	P1	P2	P3	P4	P5
DATE/TIME	5-26	16-49	Contraction of the Contraction o	40-60	80-116
	(MEV)	(MEV)	(MEV)	(MEV)	(MEV)
10/ 445 7	a.ava+ 4	3.000+ 0	6.000+ 0	6.008+ a	7.000+ 6
10/ 443 7	0.000+ 0	2.004+ 0	6. 900+ v	2.000+ 0	1.100+ 1
10/ 441 7	9.000+ 6	4.696+ 0	5.000+ 0	3.000+ 0	3.000+ 0
10/ 439 7	1.900+ 0	4.400+ a	4.000+ 0	5.00n+ a	3.000+ 0
EXPERIM	ENT 174: 4	PHA PARTICLE	S (COUNTS	VS. ENERGYT	
CHANNEL	A1	42	A3	A4	A 5
DATE/TIME	25-68	50-100	88-15A	168-244	320-385
	(MEV)	(MEV)	(MEV)	(MEA)	(MFV)
10/ 445 7	a.aba+ b	W. WAW+ W	9.000+ K	1.000+ 0	9.949+ 4
10/ 443 7	0.000+ W	4. NAN+ A	9.000+ 0	0.000+ 0	3.000+ 0
10/ 441 7	0.000+ 0	6.000+ 9	1.000+ 0	0.000+ A	9.000+ W
10/ 439 7	a.ana+ n	3.000+ 0	a.aua+ u	0.000+ 0	0.000+ 0
EXPERT	MENT 17C: A	LPHA PARTICLE	S WITH ENE	PGY > 0.5 M	EV
		CHANNEL A			
DATE/TIME	SECTOR	1 SECTO	2 SE	CTOH 3	SECTOR 4
10/ 445 7	1.700+	7.000	0 1.	600+ 1	1.400+ 1
10/ 443 7	1.600+	1 1.600	. 1 9.	749+ K	9.000+ 0
10/ 441 7	4.000+	1.760.		<b>600+1</b>	1.500+ 1
10/ 439 7	1.700+	1 1.700	1 1.	460+ 1	9.000+ 0
EXPERIMENT	17C: HEAV	Y NUCLEI (10:	Z>6) aITH	ENERGY > U.	6 MEV
		CHANNEL HE	•		
DATE/TIME	SECTOR	1 SECTOR	2 SE	CTOH 3	SECTOR 4
10/ 445 7	1.709+	1 1.500	1 1.	500+ 1	1.400+ 1
18/ 443 7	8.000+			600+ 1	1.600+ 1
10/ 441 7	A. 700+			749+ 0	1.500+ 1
10/ 439 7	2.200+	1 9.000		500+ 1	1.500+ 1
+ Y F	PERIMENT 170	: PROTONS W	TH ENERGY	> 1.0 MEV	
		CHANNEL P			
DATE/TIME	SECTOR	1 SECTOR	2 SE	CTOR 3	SECTOR 4
10/ 445 7	0.000+			200+ 6	a.aua+ u
10/ 443 7	0.300+			000+ H	1.000+ W
10/ 441 7	1.000+			964 K	a ana+ k
10/ 439 7	0.000+	י מטר. ח	· 0 1.	949+ R	0.000+ 0

EXPERIMENT 170: PROTONS WITH ENERGY OF 36-74 KEV CHANNEL 12

DATE/TIME	SECTOR 1	SECTOR 2	SECTOR 3	SECTOR 4
10/ 445 7	2.350+ 2	3.630+ 2	3.970+ 2	2.470+ 2
10/ 443 7	2.210+ 2	2.530+ 2	2.440+ 2	2.330+ 2
10/ 441 7	1.930+ 2	2.100+ 2	1.910+ 2	1.700+ 2
10/ 439 7	1.950+ 2	3.010+ 2	3.390+ 2	3,330+ 2
	ENT 17C: HEAVY			
CHANNEL	S(A12)	S (Hb)		(HB)
DATE/TIME	ALPHAS	10>2>6	18>7>12	2>18
10/ 445 7	5.400+ 1	6.100+ 1	6.000+ 0	3.500+ 1
10/ 443 7	5.000+ 1	5.700+ 1	3.000+ 0	4.000+ 1
10/ 441 7	5.600+ 1	5.400+ 1	9.000+ 0	3.800+ 1
10/ 439 7	5.700+ 1	6.200+ 1	7.020+ 0	3.900+ 1
CHANNEL	(P14)	(PIN)	SCP111	(912)
	>0.5 MEV			
10/ 445 7	1.810+ 2	1.808+ 0	9.000+ 0	9.000+ 0
10/ 443 7	2.910+ 2	2.000+ 0	1.000+ 0	1.000+ 0
10/ 441 7	2.010+ 2	3.000+ 0	5.000+ R	5.000+ 0
10/ 439 7	2.404+ 2	5.000+ 0	1.900+ 0	2.000+ 0
EXPERIMENT	1701 LOW ENERS			
CHANNEL	L1 Li		L4	
DATE/TIME	29-36 36	-74 74-150	150-280	284-500
	(KEV) (KI	EV) (KEV)	(KEV)	(KEV)
10/ 445 7	6.257+ 3 1.24	2+ 3 2.250+	2 1.790+ 1	6.000+ 0
10/ 443 7	4.977+ 3 9.51	+ 2 1.590+	2 8.496+ 9	0 . 000+ 0
10/ 441 7	4.225+ 3 7.64	+ 2 1.379+	2 1.600+ 1	9.900+ W
10/ 439 7	4.901+ 3 1.160			8.000+ 0

Table C2.11 - Sample data listing for experiment 17.

The operator has the option to select any combination of the five different outputs for experiment 17. These are alpha particles, sectored data, heavy nuclei, high energy protons and low energy protons. Usually, all five are selected as in the above example. The operator may also select the number of telemetry pages/record, up to 16. This example has four pages/record.

14 DEC ZAZIO:24:52 SOLRAN 11R DATA REPORT FUR ZO B31/19:21145 TU 31/19:23:37 FURNAL: 2 PALF: 0

## EXPERIMENT 18: GENCORONAL-EXTRATERESTRIAL EUV

SECTORS	57-64	5.030+2	5.030+2	3.710+2	4.030+2	4.250+2	4.810+2	4.990+2	2-006-5
SECTURS	49-56	5.696+d	1.740+2	1.868+2	0.810+2	2.510+2	5.494+2	5.870+2	3.000+0
SECTORS	41-48	6.110+2	5.270+2	1.005+3	1.5na+2	9.650+2	3.664+1	1.620+2	2.450+2
SECTURS	33-44	3.550+2	5-076-0	5+076.0	1.110+2	7.070+2	4.000+0	9.090+2	2.460+2
SLCTORS	25-32	5.159+2	1.400+1	4.45M+2	2.500+1	1.550+2	2.44×+2	4.66041	1.274+2
SECTORS	17-24	1.590+2	4.710+2	3.230+2	2.030+2	1.053+3	1.230+2	1,050+2	5.150+2
SECTORS	0-10	2.400+2	1.480+2	7.36M+1	1.810+2	2.05A+2	3.830+2	6.31M+2	2.524+2
SECTURS	1-6	2.530+2	2.570+2	4-NON-2	4.600+0	3.110+2	4.89m+2	1.3701+2	0.25w+2

# EXPERIMENT 19: GEOCONONAL-EXTRATERHESTRIAL FUV

SEC10KS 27-64	1.189+2	6.878+2	6.869+1	1.510+2
SECTURS 49-56	4.430+2	4.650+2	5.330+2	1.268+2
SECTORS 41-48	5,190+2	3.354+2	20.00	2.738+2
SECTURS 33-40	3.878+2	5.450+2	2.146+2	3.000+2
SEC10KS 25-32	7.190+2	1.000+0	2.308+2	1.61442
SECTURS 17-24	7.690+2	1.524+2	2432	4.150+2
SECTORS 9-10	4.710+2	6.918+2	3 958+2	5,496+2
SECTURS 1-8	4.090+2	1.250+2	1 + 2 2 2 4 1 2 4 1 2 4 1 2 4 1 1 1 1 1 1 1	5.090+2 4.390+2

Sample data listing for experiments 18 and 19. 1 Table C2.12

B UFC 76/18:38:30 SOLRAD 118 DATA REPORT FUR 701110/ 4:45:7 7 TO 10/ 4:46:59 EXPERIMENT 29: PROTON-ALPHA TELESCOPE TURMAT: 1 PAGE: 2 FURNAL: 1

PLE	750	>		1.37012	1.000+0	6. AUR+A	1.030+2	1.230+2	4.000+0	1.000+0	0+000.0		ALPHA	8+050°0	0+000 B	8+000 B			0+000 B	0+000 B	B . G . D + G		
SECUND SAMPLE	200	×		B+848-6	B - 900+0	2 - 220 + 2	B+888.8	M. 000+0	M . M . M . M	0+000° 0	a - ana + a		MEV	22-32	32-52	52-100	٠		22-32	32-52	52-168		
	COINC	2		8+600 B	8+83B.8	0+000°	M+000.0	M+0000 D	B+600.0	B-800 B	8 . BEB+B	VS ENERGY	PRUTONS	0+00n.u	0.000+0	0+000 n	0+000°0	n - 000 + 0	0+000.0	N+980.N	N+000-0	0.000+10	N-0000.
LE	1			1.390+2	2.060+0	3.01040	1.250+2	1.160+2	4-030.6	M. Grote	0+0A0. N	CUUNTS	MEV	2.69-4.03	2.01-2.50	1.56-2.41	1.35-1.50	1.24-1.35	2.09-4.03	2.u1-2.6u	1.56-2.01	1.35-1.56	1.24-1.35
FIRST SAMPLE	500	*		6+000°	מיממש+נו	B-BUD-B	8+898. F	M. MMM+4	8+636. A	0+690° 0	6+60P. B		PKUIUNS	พ+พลพ.พ	A. AUN+4	A. AEB+10	M - PUB + M	A. AUG+11	D+BUM. 0	P. MUGAG	พ•ผนพ•ผ	A.04040	M. AWA+M
	R COINC	2		B+BNB+B	מישהש+ט	A. BLIN+A	0+000 B	B-848+8	0+00+0	A. BNO+6	8+000 B		MEV PH	5.5-8 A		13-25 8.	23-5M M.	54-14H A.			13-25 M.		50-100 M
	DETECTOR	# NId	CHANINEL	•	1	~	ю	9	£	v	1		Σ	¢.	93	13	62	36	5.	22	13	23	35

Table C2.13 - Sample data listing for experiment 20.

8 DFC 76/16:57:45

SOLRAD 118 DATA REPORT FOR 701110/ 3:29: 7 TO 10/ 3:30:59 EXPERTNENT 21: LOW ENERGY PROTON SPECTRUMETER

FURNAT: 1 PAGF: 28

6 445=617	3.391+0	COLING.	3.821+1
137-169 169-228 228-320 320-445 445-517	3.05/+6	01/-054 854-1277 1277-17/4 1774-2744 2744-6929 CUINC COUNT	4.925-1 6.707-1 0.010+0 2.544-2
200-300	1.1.8	1774-2744	44010.0
3	2.472+1	1277-17/4	0.707-1
137-169	4 8 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	854-1277	4.825-1
97-137	2+010+2	01/-054	7 1.231+0
CHANNEL # ENERGY (KEV) DATE/ITME	CHARNEL # 7 8 9 10 11 12 12 12 12 12 12 12 12 12 12 12 12	ENERGY (KEV) DATE/ITHE	70111W/ 329 7 1.231+W 4.925-1 6.7W7-1 W.WHW+W 2.544-2 3.821+1

)

Table C2.14 - Sample data listing for experiment 21.

## 0 UEC 75/18:35:52

SOLRAD 11H DATA REPORT FOR 7011167 4:45: 7 TO 107 4:46:59 EXPERIMENT 22: SOLAR FLARE ELECTRONS

FURNAT: 1 PAGE: 2

CHANNEL	ENERGY	FLUX	CHANNEL	ENERGY	FLUX
#	(KEV)			(KEV)	
2	40.2	4.305+		874.9	5.814- 1
4	160.7	4.112+ 3			3.972+ 1
5	222.0	1.168- 2		1357.0	1.823+ 1
6	147.0	1.440+		1600.0	6.668- 1
PRUTUNS	> 70 ME	V: 3.353-	1		
SPECTRAL	INDICE	s: K(2,4) :	= -3.677+ 0	K(4,8) =	-3.151+ ø
CHANNEL	4 E V	SECTOR 1	SECTION O	SECTOR 1	CECTÓD A
			SECTOR 2	SECTOR 3	SECTOR 4
1	7.7	2.274+ 7	2.207+ 7	2.267+ 7	2.267+ 7
	385.N	1.275+ 0	9.752- 1	9.561- 1	9.943- 1
CHANNEL	KEV	SAMPLE 1	SAMPLE 2	SAMPLE 3	SAMPLE 4
3	107.6	7.130+ 4	7.108+ 4	7.130+ 4	7.108+ 4
A	640.0	5.157- 1	6.798- 1	6.798- 1	5.564- 1
CHANNEL		SAMPLE 5	SAMPLE 0	SAMPLE 7	SAMPLE, 8
3	107.6	7.198+ 4	7.108+ 4	7.198+ 4	7.108+ 4
a	640.9	7.736- 1	8.908- 1	7.974- 1	6.095- 1

Table C2.15 - Sample data listing for experiment 22.

8 UFC 76/14:48:40 SALMAD 118 DATA KEPONT FUR 701110/ 4:41: 7 TO 18/ 4:42:59

			cu.				31			31			31			31			31			31			31			31		
		FRURY	TEMP	(DEG +			-83,31			-63.31			-63,31			-83.31			-83,31			-83,31			-63.31			-63,31		
X		FRUM	RATEMETER	(VOLTS)			1.42			2.00			2.00			2,12			2.84			2.12			2,12			2.34		
\ ±		č	_		s	6	5	2	5	2	5	5	2	5	2	s	5	٥	S	2	5	S	8	8	s	2	5	5	5	
RAY SPECTHUME		NOKMAL		10 +	5	S	2	S	2	S	S	S	S	5	22	S	3	S	S	S	2	S	S	s	9	5	s	2	5	
× 2 ×				+1	2	5	2	S	5	5	2	s	s	2	5.	Z	s	5	5	5	2	2	z	3	Z	5	3	Z	•	
				0+	z	5	z	S	S	2	3	S	5	9	2	ş	3	S	2	5	.5	9	2	S	2	\$	s	3	S	
RULIND				+	5	5.	8	5	8	5	S	8	s	5	S	s	S	s	S	s	8	5	5.	5	8	S	5	5	5	S
BACKE				4	2	3	S	S	3	2	3	2	3	S	2	S	3	نڌ	S	3	3	3	S	2	3	2	3	S	9	ت
24: BACKGROUND X.	~			M+	٤.	3	S	5	5	2	6.	5.	S	E	8	5	5	5	5.	2	5	z	6	5	5	s	2	5	5	2
4 7	ALSE:			2+	s	2	3	3	2	s	2	ī	2	s	Z	3	2	2	2	S	Š	3	2	5.	s	3	S	2	S	2
× × ×	1			-	S	2	z	2	5	8	s	c	2	5	2	٤	s	8	ટ	S	S	5	2	S	6	Z	s	5	E	2
4	<b>-</b>			5+	5	2	Ö	3	s	2	2	3	2	2	2	S	3	7	3	3	9	s	2	2	2	2	9	2	S	5
100	FURMAI:		CHANNEL	20.0	s	10	30	25	24	O.C	90	10	90	200	200	110	120	130	140	150	100	110	100	120	2000	510	220	230	240	220

Table C2.16 - Sample data listing for experiment 24
This experiment is not functioning, but the output is included for the sake of completeness.

23 UPE 76/14: 61. 2

SULMAD 116 DATA REPORT FOR 76 927/201 1:20 FAPERIMENT 25: GAMMA RAY BURSTS

FURNAT: 1 FAGE: 2

## SIATE-OF-HEALTH DATA

A:1-28	2.977+3	u:1-30	2.977+3
A:T-24	2.921+3	B: 1-20	2.040
A:1-24	5,693+3	u: 1-22	2.945+3
A:T-10	2.913+3 2.415+3	B: 1-18	2.793+3
A:1-12	2.945+3	b:1-14	P.897+3
4:1- 11 A:T- A A:T- B A:1-12 A:T-10 A:T-24 A:T-28	2.955+5 3.001+3 2.945+3 2.945+3 2.913+3 2.993+3 2.921+4 2.977+3 2.953+3 2.921+4 2.977+3	H:1-2 D:1-6 H:T-10 D:1-14 B:T-18 H:1-22 B:T-20 H:1-3A	2.537+5 2.941+3 2.897+5 2.897+3 2.793+5 2.945+3 2.945+4 2.977+3 2.537+5 2.945+3 2.897+5 2.795+3 2.945+3 2.845+4 2.977+3
A:1- 4	3.001+3		2,921+3
A:1- 0	9+995.N	н:1-2	2.537+5

Sample data listing for experiment 25 (State of Health). Table C2.17

The state of health data is a status monitor mode for this experiment. The data is in counts and is output once per minute, but is updated only once per telemetry page. There are two detectors which are alternated on successive pages. The display contains 16 pages of data working backwards from the time requested.

14 DEC 70/18:95:32

SOLRAD 118 DATA KEPOKT FUR 76 831/19:21:45 TU 31/19:25:45 EXPERIMENT 25: GAMMA KAY BURSI DETECTOR

FORMAT: 2 PAGE: 1

SFUMENT	<b>J</b> 1		2-3 1-4	J)	1	Ø	n	4	11	Q	N	4	4
SF			6-3	a	~	v.	<b>F</b> :	-	~	-	2	^	-
<b>a</b>		ATA	4	~	9	-	-	a	1	っ	2	œ	っ
RETRIGGER	-	AL D	63	-	2	N	N	2	œ	2	2	-	S
RET		SPECIRAL DATA	23	-	N	2	-	-	S	-	s	-	-
T.		SP	5	4	S	a	-	-	a	-	a	9	2
SOURCE	-		COUNT	9	1	æ	o	4		n	~	4	4
CAL	0		80	o.	S		5	3	٥	S	3	s	-
			23	2	-	S	S	2	-	S	S	2	2
TIME	000		o.	N	34	3	-	-	3	9	9	2	-
HEKS	2233000	DAIA	S	-	9	N	2	S	-	م	3	-	2
COARSE TINE FINE TIME (OCTAL NUMBERS)		RATE	4	N	-	-	s	N	-	2	-	N	-
CTAL	27	œ	83	3	3	N	z	3	-	2	-	2	2
CO	514257		8	2	5	2	-	-	2.	3	s	-	-
Ü			51	N	2	-	s	N	-	9	s	2	3
EVENI	4		LAODE	41	7 7	3.5	46	36	-	N	•	4	n

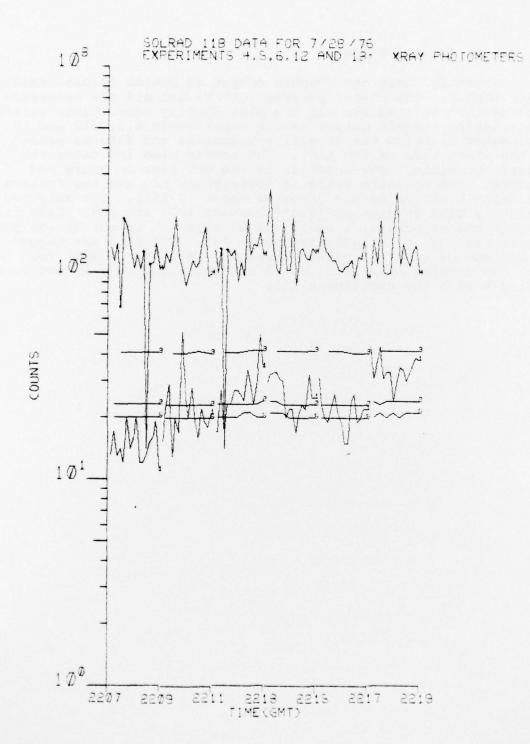
STATE-UF-HEALTH DATA

3.105+3	Su:1+ 2	3,057+3	3,057+3
	1 + u	105+3	165+3

Table C2.18 - Sample data listing for experiment 25 (Gamma data output).

## 3. Sample Graphic Outputs

Currently, only one graphic output of SOLRAD 11 data exists under SOLOLS. The master program (QLPLT) and all the necessary architecture to complete all the plot display subroutines exists. The existing graphic output is for experiments 4,5,6,12 and 13. The header contains the satellite indicator and date as sensed at the start time of the plot. The header also indicates the experiment title. The abscissa is the GMT time in hours and minutes. The ordinate scale is logarithmic and has two options. The default option is the detector count (0-255). The selectable option is flux in ergs cm<sup>-2</sup>sec<sup>-1</sup> between 10<sup>-7</sup> and 10<sup>0</sup>. Each time a range change occurs, a small "plus" sign (+) is put at the point. A detector change is indicated by an "X". The data are tagged at the end of each two minute telemetry page by a number from 1-5 with one meaning experiment #4, 2 meaning experiment 5, and so on ending with 5 for experiment 13.



## 4. Sample Describe Outputs

The Describe task allows a detailed examination of the data base and its directory. Table C4.1 is a listing of the data base directory showing header data in words 1-124 and minute tags in words 125 and greater. All directory information is printed in integer decimal.

Table C4.2 illustrates the octal form of the data base output. The pure data is preceded by some header information. The data itself is given in octal magnitude and sign. The left hand column contains the word number of the first word in the corresponding row. Word number advances from left to right in a row.

Table C4.3 illustrates the binary form of the data base output. The data is again preceded by some header information. The left hand column contains the word number of the first word in the corresponding row. Word number advances from left to right in a row.

	T	able	C4.	.1	Samp	le I	Data	Base	Di	rect	ory	(Des	scri	be)	
350	227	193	532	8	•	é	a	v	•	v	a	a	a	4	a
v	•		A		2	~		N	a	6	0	0	a	0	a
v	Ø	W	•	.4	a	~		W	a		a	W	Ø	0	0
0	2	N	4		ra ra			0	(A	W	0	0	9	0	0
	2	'n	9	4	14			4	9	N	2	0	2	0	0
0	*	J	- 14	0	11	0		0	7	U	0	N	a	0	Ø
N	0	4	a	t)		V.		v	Ø		a	2776		2782	
2786		2790	2792	2020	2796	2796			2931	2844	2834	2897	2849	2010	2812
2844	-	2047	2848	2650	2852	2054			2808	2863	2863	2863	2866	2866	2878
2670	2471	2072	2874	2870	28/R		2	4		8	9	15	16	18	20
22	24	20	54	30	32	34		30	40	43	44	47	48	50	52
76	56	50	50	80	88	62		64	96	96	100	102	104	190	16
110	112	114	116	118	127	122		130	128	136	132	134	136	136	140
142	a	U	9	N	a	6		U	•		0	Ø	2	0	P
٥	•	v	a	N	A	v.		6	a	U	3	0	a	0	0
2	N .	ly ls	N	N	9	6		N	2	0	a	Ø	9	0	0
٥		6	a	6	54	,		8	0	0	0	ø	0	0	6
0	7	N	9	w	7	8:	a	ø	2	0	0	N	2	0	9
0	2	٤	a	N	ø	v		0	a	0	a	6	0	0	
0	9	20	0	N	N	6		0	0	0	9	N	a	0	0
0	2	0	A	9		v	-	0	0	8	a	9	a	0	
4	7	Ø	Ø	ø	a	w	0	0	•	0	0	N	9	0	0
ø		Ø	2	W	•	V)		6	a	0	a	0	a	0	a
4	3	0	9	N	(1)	6		N	a	0	. a	0	9	9	0
0	7	4	9	W	0	0		N	a	6	Ø	e e		Ø	
d	*	61		é	a	4		ø	a	u	0	1	0	0	0
ø	•		а	6	a	41		N	9	v	a	0	a	9	P
60	2	W W	0	N	(4	v v		0	9	0	a	9	a	8	0
v			3	e e	a	N		6	a	N	9	8	0	Ø	a
N	,	0		W	a	<b>(</b> )	a	Ø	2	U	a	٥	a	0	0
a	2	e)	•	N	0	r		Ø	2	6	3	N	0	c	•
e e	2	8	2	N	9	6		0	a	N	9	0	9	N	0
0	,			12	7			Ø	0		0	4		9	0
0	*	e	(9	v	•	d		a	a	ø	a	4	•	0	ø
4)	0	V)	9	U	9	И		N	0	Ø	2	d	0	4	0
v)	2	9	•	6	0	e e		0	9	0	9	N	0	8	0
4	•		•	N		6		0	a	v	0	W	0	N	0
w	2	v	0	N	Ø	v		И	0	v	a	0	a	•	P
v	7	W	9	61	9	0		1	a	ly	a	٥	9	2	
4		N		0		e'		0	3	6	9	0	0	0	0
v	a	8	9		2			9	3	W	0	a	0	0	
e)	2	vi	a	W		r		w	>	0		ð	•	ø	0
*1	?	W	4	0	9	*1		0	3	0	a	*1	٥	0	0
0	,	0		v 6	N ON	6	(A	v.	9	4	7	0	U	0	8
N	0		0.	V	(4	d		6		é	P	V	2	0	
	9		ø	d	ø		(4	ø	2	•1	ø	Ø	a	ø	•
· o	,	M	4	V	2	V		v	9	v	•	A	0		3
9	3	vi VI	0	6				V.	2	0	7	9	N	0	0
	7	14	0	9	0	v		0	,	6	•	0	,	N	•
9	•	٧,	•	6	a	v			а	v	Ø	v	•	0	0

Table C4.2 Sample Data Base Describe Output (Octal)

SATELLTIE A FURNAT NO. = FIRST FRAME PHOLESSEDS YEARS 75 355 DAYS HUUNE 23 MINUTES 14 SECUNUSE 59 FRACTIONAL SEC IN TENTHS OF MSELE 7951 PAGE NO. . TIY MESSAGE NU. . 0001010001001190 9171149611719111 2000111000111011 A801111100001111 ANHORNOLANOUILLI antuananantinana1 SACAMANANANANANA 1000111001110111 ANGHANGHANANANA elillumlingulate anananavaranani1 10101111100000000 and a band a ban encotettovotoote angananananananan A DURAGRONA DE LA CORDE ananahanahanahan GENERABURHERESE SOBONDRONDRONDROND 010001100010101011 UKS BURNANANANANAN NONDHOUPHOUDHOND ORBODOR SOURISONS 00001111171100001 21 25 NEWBOND SENENDERNING NEWBONDONONAGEN 06000010011111100 2020201021111100 NAMBORDADADADADA 29 ANTERETURE TURBENE 211111110000000 WARRALLITTANANA 33 NEGONDADADADADA 9699999111119999 0000011000110000 ANDRELL MORTTORON 37 BENDERNIL BURNERE ananattuanttanan BONDHONDHONDO a a a a a a 1 a 1 a a a a a a a 41 KENENBURGENBURG NUNDERSUBURGENE SONOSONOSONOSONO NABARARARARARARARA SENDENDENDENDENDE UNUNDAD AUDUS ON DUDINO aunu1101000111110 0400110100101410 45 REGINANTORNAMENTA 9490110131000010 1011111000000111101 9499999999111191 49 9090000000111101 PHOUPHPHOUPHOL SO 53 GINCIRONANANANANA **ANDROUGUAGAGAGA** 57 MENENDARMONDARMON NONDHOUDHOUGHON NINTERPRESENTATION O ! I TON TI TON TON TON TON 61 111111111111111111 2010210000110101 3114001001111100 7011101100711101 65 שמשמשמשונו ומרנונה 111111111001111110 BONDURUNGBURUNG DAMAPAPAPAPAPAPAPA 55 NAMAGENBRANDER UNDODUANDUANOUPUR UD DITONETERDENEGONE 7011101100011101 73 DELNORDING NORMING ANGUANANANANANANA ananananini 10111 3110001100000101 77 BENEVERNONDERENDE unanamante atatat Settitionitentine 7011101001001100110 41 2011107100117030 ananancaae111nto ORYANANANANANANA PODODODODODODO AP A anatiahahahahahanan 85 SENDRONANDECENTA 0426266666111104 0111010010011001110 9611167170110000 ananahahahahananen BONDHONONONDNON 71110401111111111 9.5 117110100000000000 16161110166060111 antellananananana 1011120100011101 NONDANANANANANAN 97 anananatananana NONGOONOGONOGONO BURNAURURURURURU MANAMANAMANAMANA SABBNENBURNBERSE 10000010010111110 131 175 1 WELL THE WENT THEN ! ! TON! KARANANANANANA 11111111100001111 1101001111001111 11111111011111111 AL 400000000001100 NACAMANANANANANA 179 P3040000000001111 211211211221121 ALALON SONDNONDER 113 1111111101111111 1101001000001100 11101111111011101 BINITESTERNENEUR CUCCAGAGAGAGAGAGA ananananananiiin 117 121 111011111111111111 ANGUANANANANANANA ANGUIUIIININAIII 0200100170111101 120 ananinalalalaniani NOTITION TOP WEIGH NE BENDRANDANDRANDE NAMBURNONDURNONDU 129 and and and and and in ANGUADANT 1 1 HOURS 11101010111101010 111010111011101010 111010101211101010 1 with the to anoughout DONENBURNANANA PAGGALT TO BANK PANE 137 11tutetutitatututu 00000011100000 11141410111101010 1110101011101010 141 11101010111101010 tutututeseeneuer SANDHANANANANA WARRELLINARRA 00041101011161116 145 11101010111101010 ananananacananan URBONAGANANANANA 7670117171711110 2646112121111116 2020112121101110 149 0000117101101110 011111111111100n 153 3000113131101110 ABBRURNANANANANA NEWSCHANNERSEN CHANGRICHERONARAS PAPELLETUISTON 157 NEGENDRALDINANA URRANANANANANANA NOVONDNOVONDNO 151 0000110101101110 7070711111111111 ANDNO111111111111 anananananananan PARALLENINGILINGA 150 000V2111111111111 ananananarananan 159 AUGU112014111141 adduttantellines o 2181110190110000 BATTITATABLESDED 175 2020113010111111 100111010111001 aravavavavavavava PHONONONONONONON 177 NANDNONDNONDNAN NONDINNANDURNEN 2022112012111120 ANDNANGNANGNANGN AN ANDRO TONO HONO HONO SUBSTANTANTANTANTANT adananchananananan 181 PHOUDHOUSEDNOUNE #11144441144611 DADNOSOBORONONO 185 ANAUGUAUTITITATI MANANA JENANGHANA ולודו ושמטעון שמחות 1111000001110111 144 TININGIANDININI

Sample Data Base Describe Output (Binary)

Table C4.3

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2111949491111411